JAMES B. BEYER

AFCRL-TR-74-0536
PHYSICAL SCIENCES RESEARCH PAPERS, NO. 609

# Microwave Acoustics Handbook

## Volume 2. Surface Wave Velocities—Numerical Data

Editors
A. J. SLOBODNIK, JR.
R. T. DELMONICO
E. D. CONWAY

25 October 1974

Approved for public release; distribution unlimited.

MICROWAVE PHYSICS LABORATORY PROJECT 5573
AIR FORCE CAMBRIDGE RESEARCH LABORATORIES
HANSCOM AFB, MASSACHUSETTS 01731

AIR FORCE SYSTEMS COMMAND, USAF

Qualified requestors may obtain additional copies from the Defense Documentation Center. All others should apply to the National Technical Information Service.

## REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

| | |
|---|---|
| 1. REPORT NUMBER: AFCRL-TR-74-0536 | 2. GOVT ACCESSION NO. |
| 3. RECIPIENT'S CATALOG NUMBER | |
| 4. TITLE (and Subtitle): MICROWAVE ACOUSTICS HANDBOOK Volume 2. Surface Wave Velocities– Numerical Data | 5. TYPE OF REPORT & PERIOD COVERED: Scientific. Interim. |
| | 6. PERFORMING ORG. REPORT NUMBER: PSRP, No. 609 |
| 7. AUTHOR(s): A. J. Slobodnik, Jr.<br>R. T. Delmonico<br>E. D. Conway | 8. CONTRACT OR GRANT NUMBER(s) |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS: Air Force Cambridge Research Laboratories (LZM)<br>Hanscom AFB<br>Massachusetts 01731 | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 55730701<br>62702F<br>675573 |
| 11. CONTROLLING OFFICE NAME AND ADDRESS: Air Force Cambridge Research Laboratories (LZM)<br>Hanscom AFB<br>Massachusetts 01731 | 12. REPORT DATE: 25 October 1974<br>13. NUMBER OF PAGES: 356 |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) | 15. SECURITY CLASS. (of this report): Unclassified<br>15a. DECLASSIFICATION/DOWNGRADING SCHEDULE |

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

TECH, OTHER

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Acoustic surface wave velocities
Surface wave numerical data
Microwave acoustic material constants
Surface wave power flow angles
Surface wave bibliography
Handbook for acoustic surface waves

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Information essential for the accurate design of advanced acoustic surface wave filters, signal processors, and other miniature low-cost reliable devices for use in communications and electronic sensing is given in this report.

Numerical data on surface wave velocity, electromechanical power flow angle, mechanical displacement, electric potential, and estimates of surface wave coupling to interdigital transducers are given for various orientations of the

Section 20 (Continued)

following surface wave substrate materials: $Ba_2NaNb_5O_{15}$, $Bi_{12}GeO_{20}$, CdS, Diamond, $Eu_3Fe_5O_{15}$, Gadolinium Gallium Garnet, GaAs, Germanium, InSb, InAs, PbS, $LiNbO_3$, MgO, Quartz, Rutile, Sapphire, Silicon, Spinel, $TeO_2$, YAG YGaG, YIG, and ZnO. This present volume is intended to be used as a supplement to Volume 1A whenever accurate numerical data is required rather than the more convenient graphical information.

# Preface

The widespread use of acoustic devices in Air Force and other military systems has prompted the generation of this Microwave Acoustics Handbook series. This second volume consists of numerical data corresponding to many of the graphical curves presented in Volume 1A. As this volume is intended as a supplement to Volume 1A, particularly for the serious surface wave design engineer, none of the fundamental notation or theory is repeated here. Rather, the reader is urged to consult Volume 1A prior to utilization of the numerical data contained in the present volume.

For ease in computer generation it was necessary to introduce one difference between Volume 1A and Volume 2. The 110-cut plate has been replaced by one designated the 110'-cut plate. It is defined in detail in the text.

As with the other volumes in this series, this work was accomplished at AFCRL on Rome Air Development Center (RADC) Task 5573 entitled "Microwave Acoustic Device Techniques for Air Force Applications." The editors wish to thank H. Chiosa and the late A. Frohlich for their interest. There are also many other persons and organizations without whom this Handbook could never have been written. Several, however, must be singled out for their particularly valuable contributions. Full support for two of the editors, E.D. Conway and R.T. Delmonico of ACSI, Inc., was provided under contract from the Analysis and Simulation Branch of the AFCRL Computation Center. This support is very gratefully acknowledged as is the personal interest of J.T. Cooney, Chief of that organization and the assistance of C.M. Walter, E.C. Cronin, J.F. Kellaher, and P. Tsipouras. Sincere thanks also go to R.G. Gosselin of the AFCRL Computation Center for his cooperation and support.

In addition, the editors are deeply indebted to W. R. Jones, W. R. Smith, and J. J. Campbell of the Hughes Aircraft Company for providing copies of their computer programs as well as for many helpful discussions. Finally the editors wish to acknowledge the programming assistance of T. Smith and R. W. Mack.

## Contents


| | | |
|---|---|---|
| 1. | SURFACE WAVE NUMERICAL DATA | 7 |
| | $Ba_2NaNb_5O_{15}$ | 9 |
| | $Bi_{12}GeO_{20}$ | 37 |
| | CdS | 45 |
| | Diamond | 49 |
| | $Eu_3Fe_5O_{12}$ | 57 |
| | Gadolinium Gallium Garnet | 65 |
| | GaAs | 73 |
| | Germanium | 81 |
| | InSb | 85 |
| | InAs | 97 |
| | PbS | 101 |
| | $LiNbO_3$ | 105 |
| | $LiTaO_3$ | 137 |
| | MgO | 177 |
| | Quartz | 185 |
| | Rutile | 201 |
| | Sapphire | 209 |
| | Silicon | 241 |
| | Spinel | 245 |
| | $TeO_2$ | 261 |
| | YAG | 269 |
| | YGaG | 297 |

YIG 305
ZnO 317

APPENDIX A: Data Using Nonstandard Material Constants 321

# Microwave Acoustics Handbook

## Volume 2. Surface Wave Velocities Numerical Data

### 1. SURFACE WAVE NUMERICAL DATA

The following pages consist of computer generated numerical printout for a variety of surface wave materials and orientations. These orientations are defined in Figure 1, where it should be noted that the 110′-cut plate differs from the 110-cut plate used in the first volume of this Handbook. The Euler angles[2] for the 110′-cut plate are 45, 90, $\theta$, which means that a 35.264° difference exists from the previously generated[1] graphical data for which the Euler angles were 45, 90, 35.264 + $\theta$. The material constants used to generate this data are those given[1] in Volume 1A.

The numerical printout contains the following information. The first column is the variable Euler angle (always called THETA in the printout) for the particular cut under investigation, VWH = INF is the free surface velocity, PHI INF is the free surface electromechanical power flow angle, MAG U and PHAS U are the magnitude and phase respectively of the free surface mechanical displacements at the

(Received for publication 24 October 1974)

1. Slobodnik, A. J., Jr., Conway, E. D., and Delmonico, R. T. (1973) Microwave Acoustics Handbook Volume 1A. Surface Wave Velocities AFCRL-TR-73-0597.

2. Goldstein, H. (1950) Classical Mechanics, New York, Addison-Wesley.

3. Campbell, J. J., and Jones, W. R. (1968) A method for estimating optimal crystal cuts and propagation directions for excitation of piezoelectric surface waves, IEEE Trans. Sonics and Ultrasonics SU-15:209-217.

crystalline surface, MAG POT and PHS POT are the magnitude and phase of the electrical potential, VWH = 0 is the shorted surface velocity, PHI ZRO is the shorted surface electromechanical power flow angle, and DV/VINF is the well-known[3] coupling coefficient $\Delta v/v_{\infty}$.

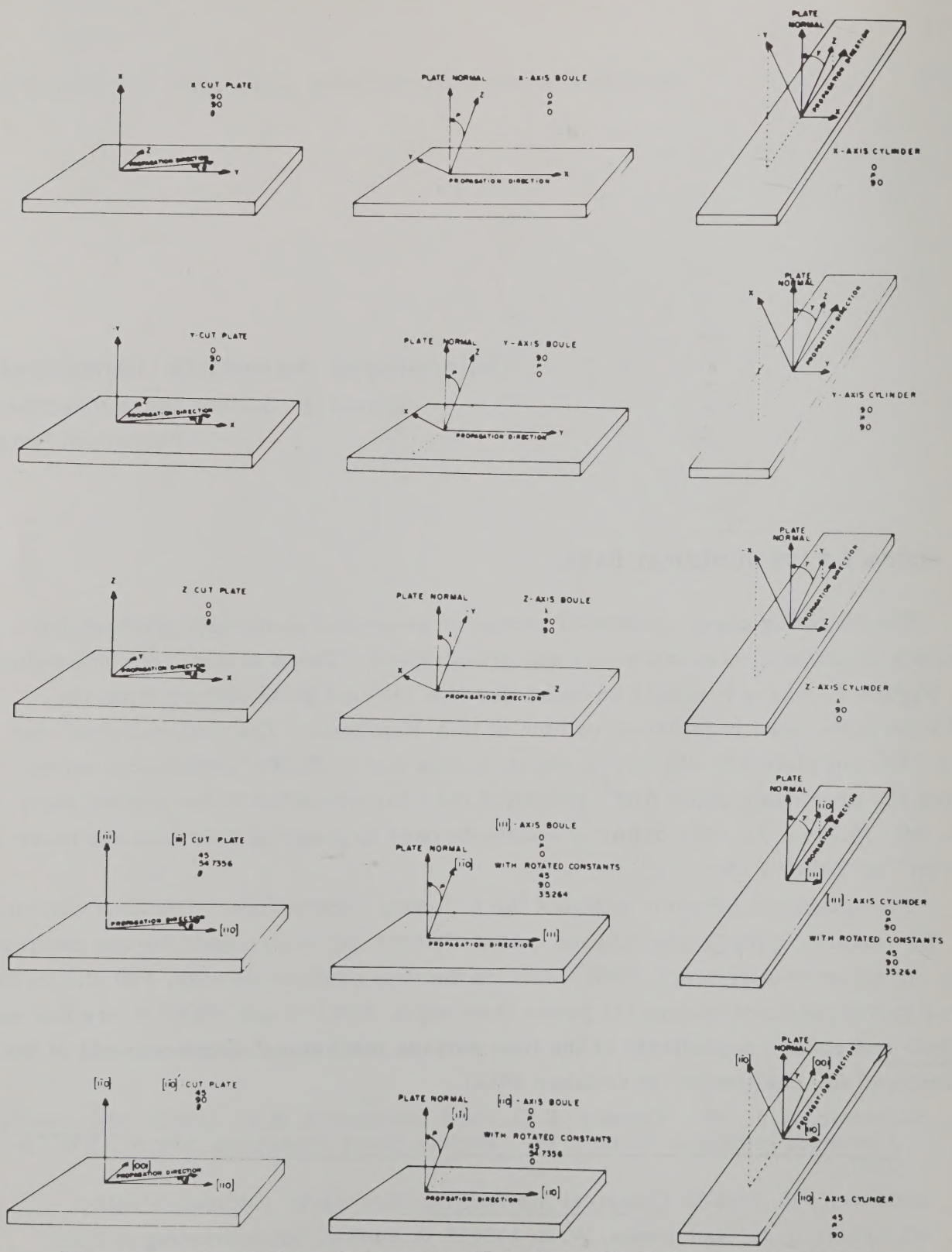


Figure 1. Crystalline Orientation Notation with Euler Angles. Note differences between 110-cut of Volume 1A and 110′-cut of Volume 2

Z-CUT BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHAS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3314.183 | 0.000 | .00370 |
| 1. | 3326.513 | .030 | .22E-05 | 0.00 | .47E-08 | 180.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3324.976 | .030 | .00046 |
| 2. | 3326.559 | .061 | .22E-05 | 0.00 | .93E-08 | 180.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3325.021 | .059 | .00046 |
| 3. | 3326.636 | .091 | .22E-05 | 0.00 | .14E-07 | 180.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.095 | .088 | .00046 |
| 4. | 3326.744 | .121 | .22E-05 | 0.00 | .18E-07 | 180.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.200 | .117 | .00046 |
| 5. | 3326.881 | .151 | .22E-05 | 0.00 | .23E-07 | 180.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.333 | .146 | .00047 |
| 6. | 3327.049 | .180 | .22E-05 | 0.00 | .27E-07 | 180.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.496 | .175 | .00047 |
| 7. | 3327.245 | .208 | .22E-05 | 0.00 | .32E-07 | 180.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.687 | .202 | .00047 |
| 8. | 3327.471 | .236 | .22E-05 | 0.00 | .36E-07 | 180.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3325.905 | .230 | .00047 |
| 9. | 3327.725 | .264 | .22E-05 | 0.00 | .40E-07 | 180.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3326.151 | .256 | .00047 |
| 10. | 3328.006 | .291 | .22E-05 | 0.00 | .44E-07 | 180.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3326.424 | .282 | .00048 |
| 11. | 3328.313 | .316 | .22E-05 | 0.00 | .48E-07 | 180.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3326.723 | .307 | .00048 |
| 12. | 3328.647 | .341 | .22E-05 | 0.00 | .52E-07 | 180.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3327.046 | .331 | .00048 |
| 13. | 3329.005 | .365 | .22E-05 | 0.00 | .56E-07 | 180.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3327.393 | .354 | .00048 |
| 14. | 3329.387 | .388 | .22E-05 | 0.00 | .59E-07 | 180.000 | .37E-05 | 90.000 | .141E+04 | 90.000 | 3327.763 | .376 | .00049 |
| 15. | 3329.792 | .410 | .22E-05 | 0.00 | .62E-07 | 180.000 | .37E-05 | 90.000 | .141E+04 | 90.000 | 3328.156 | .397 | .00049 |
| 16. | 3330.218 | .430 | .22E-05 | 0.00 | .66E-07 | 180.000 | .37E-05 | 90.000 | .142E+04 | 90.000 | 3328.568 | .417 | .00050 |
| 17. | 3330.664 | .449 | .22E-05 | 0.00 | .68E-07 | 180.000 | .37E-05 | 90.000 | .143E+04 | 90.000 | 3329.001 | .435 | .00050 |
| 18. | 3331.129 | .467 | .22E-05 | 0.00 | .71E-07 | 180.000 | .37E-05 | 90.000 | .143E+04 | 90.000 | 3329.451 | .453 | .00050 |
| 19. | 3331.611 | .484 | .22E-05 | 0.00 | .74E-07 | 180.000 | .37E-05 | 90.000 | .144E+04 | 90.000 | 3329.918 | .468 | .00051 |
| 20. | 3332.110 | .499 | .22E-05 | 0.00 | .76E-07 | 180.000 | .37E-05 | 90.000 | .144E+04 | 90.000 | 3330.401 | .483 | .00051 |
| 21. | 3332.623 | .512 | .22E-05 | 0.00 | .78E-07 | 180.000 | .37E-05 | 90.000 | .145E+04 | 90.000 | 3330.897 | .496 | .00052 |
| 22. | 3333.149 | .524 | .22E-05 | 0.00 | .80E-07 | 180.000 | .37E-05 | 90.000 | .146E+04 | 90.000 | 3331.406 | .507 | .00052 |
| 23. | 3333.686 | .534 | .22E-05 | 0.00 | .82E-07 | -180.000 | .37E-05 | 90.000 | .147E+04 | 90.000 | 3331.925 | .517 | .00053 |
| 24. | 3334.233 | .542 | .22E-05 | 0.00 | .83E-07 | 180.000 | .37E-05 | 90.000 | .147E+04 | 90.000 | 3332.454 | .525 | .00053 |
| 25. | 3334.787 | .549 | .21E-05 | 0.00 | .84E-07 | 180.000 | .37E-05 | 90.000 | .148E+04 | 90.000 | 3332.990 | .531 | .00054 |
| 26. | 3335.348 | .554 | .21E-05 | 0.00 | .85E-07 | 180.000 | .37E-05 | 90.000 | .149E+04 | 90.000 | 3333.532 | .536 | .00054 |
| 27. | 3335.913 | .558 | .21E-05 | 0.00 | .86E-07 | -180.000 | .37E-05 | 90.000 | .149E+04 | 90.000 | 3334.077 | .539 | .00055 |
| 28. | 3336.481 | .559 | .21E-05 | 0.00 | .87E-07 | -180.000 | .37E-05 | 90.000 | .150E+04 | 90.000 | 3334.625 | .540 | .00056 |
| 29. | 3337.050 | .559 | .21E-05 | 0.00 | .87E-07 | 180.000 | .37E-05 | 90.000 | .151E+04 | 90.000 | 3335.173 | .539 | .00056 |
| 30. | 3337.617 | .557 | .21E-05 | 0.00 | .87E-07 | 180.000 | .37E-05 | 90.000 | .152E+04 | 90.000 | 3335.720 | .537 | .00057 |
| 31. | 3338.182 | .553 | .21E-05 | 0.00 | .87E-07 | -180.000 | .37E-05 | 90.000 | .153E+04 | 90.000 | 3336.264 | .533 | .00057 |
| 32. | 3338.741 | .548 | .21E-05 | 0.00 | .87E-07 | -180.000 | .37E-05 | 90.000 | .153E+04 | 90.000 | 3336.803 | .527 | .00058 |
| 33. | 3339.295 | .540 | .21E-05 | 0.00 | .86E-07 | -180.000 | .37E-05 | 90.000 | .154E+04 | 90.000 | 3337.335 | .520 | .00059 |
| 34. | 3339.840 | .531 | .21E-05 | 0.00 | .85E-07 | -180.000 | .37E-05 | 90.000 | .155E+04 | 90.000 | 3337.859 | .511 | .00059 |
| 35. | 3340.376 | .521 | .21E-05 | 0.00 | .85E-07 | -180.000 | .37E-05 | 90.000 | .156E+04 | 90.000 | 3338.373 | .500 | .00060 |
| 36. | 3340.900 | .509 | .21E-05 | 0.00 | .83E-07 | -180.000 | .37E-05 | 90.000 | .157E+04 | 90.000 | 3338.876 | .488 | .00061 |
| 37. | 3341.410 | .495 | .21E-05 | 0.00 | .82E-07 | -180.000 | .37E-05 | 90.000 | .157E+04 | 90.000 | 3339.366 | .474 | .00061 |
| 38. | 3341.907 | .480 | .21E-05 | 0.00 | .80E-07 | 180.000 | .37E-05 | 90.000 | .158E+04 | 90.000 | 3339.841 | .459 | .00062 |
| 39. | 3342.387 | .464 | .21E-05 | 0.00 | .79E-07 | -180.000 | .37E-05 | 90.000 | .159E+04 | 90.000 | 3340.300 | .443 | .00062 |
| 40. | 3342.850 | .446 | .21E-05 | 0.00 | .77E-07 | -180.000 | .37E-05 | 90.000 | .160E+04 | 90.000 | 3340.742 | .426 | .00063 |
| 41. | 3343.295 | .427 | .21E-05 | 0.00 | .75E-07 | 180.000 | .37E-05 | 90.000 | .160E+04 | 90.000 | 3341.167 | .407 | .00064 |
| 42. | 3343.720 | .408 | .21E-05 | 0.00 | .73E-07 | -180.000 | .37E-05 | 90.000 | .161E+04 | 90.000 | 3341.571 | .388 | .00064 |
| 43. | 3344.125 | .387 | .21E-05 | 0.00 | .70E-07 | 180.000 | .37E-05 | 90.000 | .162E+04 | 90.000 | 3341.956 | .368 | .00065 |
| 44. | 3344.509 | .366 | .21E-05 | 0.00 | .68E-07 | 180.000 | .37E-05 | 90.000 | .163E+04 | 90.000 | 3342.320 | .347 | .00065 |
| 45. | 3344.871 | .344 | .21E-05 | 0.00 | .65E-07 | 180.000 | .37E-05 | 90.000 | .163E+04 | 90.000 | 3342.663 | .326 | .00066 |
| 46. | 3345.211 | .322 | .21E-05 | 0.00 | .62E-07 | 180.000 | .37E-05 | 90.000 | .164E+04 | 90.000 | 3342.983 | .304 | .00067 |
| 47. | 3345.528 | .300 | .21E-05 | 0.00 | .59E-07 | 180.000 | .37E-05 | 90.000 | .164E+04 | 90.000 | 3343.282 | .282 | .00067 |
| 48. | 3345.822 | .277 | .21E-05 | 0.00 | .56E-07 | 180.000 | .37E-05 | 90.000 | .165E+04 | 90.000 | 3343.557 | .260 | .00068 |
| 49. | 3346.093 | .255 | .21E-05 | 0.00 | .53E-07 | 180.000 | .37E-05 | 90.000 | .166E+04 | 90.000 | 3343.811 | .238 | .00068 |

Z-CUT BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3346.341 | .232 | .21E-05 | 0.00 | .50E-07 | 180.000 | .37E-05 | 90.000 | .166E+04 | 90.000 | 3344.041 | .216 | .00069 |
| 51. | 3346.507 | .210 | .21E-05 | 0.00 | .46E-07 | 180.000 | .37E-05 | 90.000 | .167E+04 | 90.000 | 3344.250 | .194 | .00069 |
| 52. | 3346.770 | .188 | .21E-05 | 0.00 | .43E-07 | 180.000 | .37E-05 | 90.000 | .167E+04 | 90.000 | 3344.436 | .172 | .00070 |
| 53. | 3346.950 | .167 | .21E-05 | 0.00 | .40E-07 | -180.000 | .37E-05 | 90.000 | .168E+04 | 90.000 | 3344.601 | .151 | .00070 |
| 54. | 3347.110 | .146 | .21E-05 | 0.00 | .36E-07 | 180.000 | .37E-05 | 90.000 | .168E+04 | 90.000 | 3344.745 | .131 | .00071 |
| 55. | 3347.248 | .126 | .21E-05 | 0.00 | .33E-07 | 180.000 | .37E-05 | 90.000 | .169E+04 | 90.000 | 3344.869 | .112 | .00071 |
| 56. | 3347.366 | .106 | .21E-05 | 0.00 | .29E-07 | 180.000 | .37E-05 | 90.000 | .169E+04 | 90.000 | 3344.973 | .093 | .00071 |
| 57. | 3347.465 | .088 | .21E-05 | 0.00 | .26E-07 | 180.000 | .37E-05 | 90.000 | .170E+04 | 90.000 | 3345.058 | .074 | .00072 |
| 58. | 3347.545 | .070 | .21E-05 | 0.00 | .23E-07 | 180.000 | .37E-05 | 90.000 | .170E+04 | 90.000 | 3345.125 | .057 | .00072 |
| 59. | 3347.608 | .053 | .21E-05 | 0.00 | .20E-07 | -180.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.175 | .041 | .00073 |
| 60. | 3347.653 | .037 | .21E-05 | 0.00 | .17E-07 | 180.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.209 | .026 | .00073 |
| 61. | 3347.684 | .022 | .21E-05 | 0.00 | .14E-07 | 180.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.228 | .011 | .00073 |
| 62. | 3347.699 | .009 | .21E-05 | 0.00 | .11E-07 | 180.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.232 | -.002 | .00074 |
| 63. | 3347.702 | -.004 | .21E-05 | 0.00 | .82E-08 | 180.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.224 | -.014 | .00074 |
| 64. | 3347.692 | -.016 | .21E-05 | 0.00 | .57E-08 | 180.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.204 | -.025 | .00074 |
| 65. | 3347.670 | -.026 | .21E-05 | 0.00 | .33E-08 | 180.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.174 | -.035 | .00075 |
| 66. | 3347.639 | -.035 | .21E-05 | 0.00 | .12E-08 | -180.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.134 | -.044 | .00075 |
| 67. | 3347.599 | -.044 | .21E-05 | 0.00 | .82E-09 | 0.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.085 | -.052 | .00075 |
| 68. | 3347.551 | -.051 | .21E-05 | 0.00 | .26E-08 | 0.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.029 | -.058 | .00075 |
| 69. | 3347.496 | -.057 | .21E-05 | 0.00 | .42E-08 | 0.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.967 | -.064 | .00076 |
| 70. | 3347.435 | -.062 | .21E-05 | 0.00 | .56E-08 | 0.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.899 | -.068 | .00076 |
| 71. | 3347.370 | -.066 | .21E-05 | 0.00 | .68E-08 | 0.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.828 | -.072 | .00076 |
| 72. | 3347.302 | -.069 | .21E-05 | 0.00 | .78E-08 | 0.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.753 | -.074 | .00076 |
| 73. | 3347.231 | -.071 | .21E-05 | 0.00 | .87E-08 | 0.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.677 | -.076 | .00076 |
| 74. | 3347.158 | -.072 | .21E-05 | 0.00 | .93E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.599 | -.077 | .00076 |
| 75. | 3347.085 | -.072 | .21E-05 | 0.00 | .97E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.521 | -.076 | .00077 |
| 76. | 3347.012 | -.071 | .21E-05 | 0.00 | .10E-07 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.444 | -.075 | .00077 |
| 77. | 3346.941 | -.069 | .21E-05 | 0.00 | .10E-07 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.368 | -.073 | .00077 |
| 78. | 3346.871 | -.067 | .21E-05 | 0.00 | .99E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.294 | -.071 | .00077 |
| 79. | 3346.804 | -.064 | .21E-05 | 0.00 | .97E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.224 | -.067 | .00077 |
| 80. | 3346.741 | -.060 | .21E-05 | 0.00 | .93E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.157 | -.063 | .00077 |
| 81. | 3346.681 | -.056 | .21E-05 | 0.00 | .88E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.095 | -.059 | .00077 |
| 82. | 3346.626 | -.051 | .22E-05 | 0.00 | .81E-08 | 0.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.038 | -.054 | .00077 |
| 83. | 3346.577 | -.046 | .22E-05 | 0.00 | .73E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.986 | -.048 | .00077 |
| 84. | 3346.533 | -.040 | .22E-05 | 0.00 | .65E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.940 | -.042 | .00077 |
| 85. | 3346.493 | -.034 | .22E-05 | 0.00 | .55E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.901 | -.036 | .00078 |
| 86. | 3346.463 | -.028 | .22E-05 | 0.00 | .45E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.866 | -.029 | .00078 |
| 87. | 3346.439 | -.021 | .22E-05 | 0.00 | .34E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.842 | -.022 | .00078 |
| 88. | 3346.421 | -.014 | .22E-05 | 0.00 | .23E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.824 | -.015 | .00078 |
| 89. | 3346.410 | -.007 | .22E-05 | 0.00 | .12E-08 | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.813 | -.007 | .00078 |
| 90. | 3346.406 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.809 | 0.000 | .00078 |
| 91. | 3346.410 | .007 | .22E-05 | 0.00 | .12E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.813 | .007 | .00078 |
| 92. | 3346.421 | .014 | .22E-05 | 0.00 | .23E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.824 | .015 | .00078 |
| 93. | 3346.439 | .021 | .22E-05 | 0.00 | .34E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.842 | .022 | .00078 |
| 94. | 3346.463 | .028 | .22E-05 | 0.00 | .45E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.866 | .029 | .00078 |
| 95. | 3346.493 | .034 | .22E-05 | 0.00 | .55E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.901 | .036 | .00078 |
| 96. | 3346.533 | .040 | .22E-05 | 0.00 | .65E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.940 | .042 | .00077 |
| 97. | 3346.577 | .046 | .22E-05 | 0.00 | .73E-08 | 180.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.986 | .048 | .00077 |
| 98. | 3346.626 | .051 | .22E-05 | 0.00 | .81E-08 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.038 | .054 | .00077 |
| 99. | 3346.681 | .056 | .21E-05 | 0.00 | .88E-08 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.095 | .059 | .00077 |

Z-CUT BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3346.741 | .060 | .21E-05 | 0.00 | .93E-06 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.157 | .063 | .00077 |
| 101. | 3346.804 | .064 | .21E-05 | 0.00 | .97E-08 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.224 | .067 | .00077 |
| 102. | 3346.871 | .067 | .21E-05 | 0.00 | .99E-06 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.294 | .071 | .00077 |
| 103. | 3346.941 | .069 | .21E-05 | 0.00 | .10E-07 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.368 | .073 | .00077 |
| 104. | 3347.012 | .071 | .21E-05 | 0.00 | .10E-07 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.444 | .075 | .00077 |
| 105. | 3347.085 | .072 | .21E-05 | 0.00 | .97E-06 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.521 | .076 | .00077 |
| 106. | 3347.158 | .072 | .21E-05 | 0.00 | .95E-06 | 180.000 | .37E-05 | 90.000 | .175E+04 | 90.000 | 3344.599 | .077 | .00076 |
| 107. | 3347.231 | .071 | .21E-05 | 0.00 | .87E-08 | 180.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.677 | .076 | .00076 |
| 108. | 3347.302 | .069 | .21E-05 | 0.00 | .78E-06 | 180.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.753 | .074 | .00076 |
| 109. | 3347.370 | .066 | .21E-05 | 0.00 | .69E-06 | 180.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.826 | .072 | .00076 |
| 110. | 3347.435 | .062 | .21E-05 | 0.00 | .59E-06 | 180.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.899 | .068 | .00076 |
| 111. | 3347.496 | .057 | .21E-05 | 0.00 | .42E-06 | 180.000 | .37E-05 | 90.000 | .174E+04 | 90.000 | 3344.967 | .064 | .00076 |
| 112. | 3347.551 | .051 | .21E-05 | 0.00 | .26E-06 | 180.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.029 | .058 | .00075 |
| 113. | 3347.599 | .044 | .21E-05 | 0.00 | .82E-09 | 180.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.085 | .052 | .00075 |
| 114. | 3347.639 | .035 | .21E-05 | 0.00 | .12E-08 | 0.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.134 | .044 | .00075 |
| 115. | 3347.670 | .026 | .21E-05 | 0.00 | .33E-08 | 0.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3345.174 | .035 | .00075 |
| 116. | 3347.692 | .016 | .21E-05 | 0.00 | .57E-06 | 0.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.204 | .025 | .00074 |
| 117. | 3347.702 | .004 | .21E-05 | 0.00 | .82E-08 | 0.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.224 | .014 | .00074 |
| 118. | 3347.699 | -.009 | .21E-05 | 0.00 | .11E-07 | 0.000 | .37E-05 | 90.000 | .172E+04 | 90.000 | 3345.234 | .002 | .00074 |
| 119. | 3347.684 | -.022 | .21E-05 | 0.00 | .14E-07 | 0.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.228 | -.011 | .00073 |
| 120. | 3347.653 | -.037 | .21E-05 | 0.00 | .17E-07 | 0.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.209 | -.026 | .00073 |
| 121. | 3347.608 | -.053 | .21E-05 | 0.00 | .20E-07 | 0.000 | .37E-05 | 90.000 | .171E+04 | 90.000 | 3345.175 | -.041 | .00073 |
| 122. | 3347.545 | -.070 | .21E-05 | 0.00 | .23E-07 | 0.000 | .37E-05 | 90.000 | .170E+04 | 90.000 | 3345.125 | -.057 | .00072 |
| 123. | 3347.465 | -.088 | .21E-05 | 0.00 | .26E-07 | 0.000 | .37E-05 | 90.000 | .170E+04 | 90.000 | 3345.058 | -.074 | .00072 |
| 124. | 3347.366 | -.106 | .21E-05 | 0.00 | .29E-07 | 0.000 | .37E-05 | 90.000 | .169E+04 | 90.000 | 3344.973 | -.093 | .00071 |
| 125. | 3347.248 | -.126 | .21E-05 | 0.00 | .33E-07 | 0.000 | .37E-05 | 90.000 | .169E+04 | 90.000 | 3344.869 | -.112 | .00071 |
| 126. | 3347.110 | -.146 | .21E-05 | 0.00 | .36E-07 | 0.000 | .37E-05 | 90.000 | .168E+04 | 90.000 | 3344.745 | -.131 | .00071 |
| 127. | 3346.950 | -.167 | .21E-05 | 0.00 | .40E-07 | 0.000 | .37E-05 | 90.000 | .168E+04 | 90.000 | 3344.601 | -.151 | .00070 |
| 128. | 3346.770 | -.188 | .21E-05 | 0.00 | .43E-07 | 0.000 | .37E-05 | 90.000 | .167E+04 | 90.000 | 3344.436 | -.172 | .00070 |
| 129. | 3346.567 | -.210 | .21E-05 | 0.00 | .46E-07 | 0.000 | .37E-05 | 90.000 | .167E+04 | 90.000 | 3344.250 | -.194 | .00069 |
| 130. | 3346.341 | -.232 | .21E-05 | 0.00 | .50E-07 | 0.000 | .37E-05 | 90.000 | .166E+04 | 90.000 | 3344.041 | -.216 | .00069 |
| 131. | 3346.093 | -.255 | .21E-05 | 0.00 | .53E-07 | 0.000 | .37E-05 | 90.000 | .166E+04 | 90.000 | 3343.811 | -.238 | .00068 |
| 132. | 3345.822 | -.277 | .21E-05 | 0.00 | .56E-07 | 0.000 | .37E-05 | 90.000 | .165E+04 | 90.000 | 3343.557 | -.260 | .00068 |
| 133. | 3345.528 | -.300 | .21E-05 | 0.00 | .59E-07 | 0.000 | .37E-05 | 90.000 | .164E+04 | 90.000 | 3343.282 | -.282 | .00067 |
| 134. | 3345.211 | -.322 | .21E-05 | 0.00 | .62E-07 | 0.000 | .37E-05 | 90.000 | .164E+04 | 90.000 | 3342.983 | -.304 | .00067 |
| 135. | 3344.871 | -.344 | .21E-05 | 0.00 | .65E-07 | 0.000 | .37E-05 | 90.000 | .163E+04 | 90.000 | 3342.663 | -.326 | .00066 |
| 136. | 3344.509 | -.366 | .21E-05 | 0.00 | .68E-07 | 0.000 | .37E-05 | 90.000 | .163E+04 | 90.000 | 3342.320 | -.347 | .00065 |
| 137. | 3344.125 | -.387 | .21E-05 | 0.00 | .70E-07 | 0.000 | .37E-05 | 90.000 | .162E+04 | 90.000 | 3341.956 | -.368 | .00065 |
| 138. | 3343.720 | -.408 | .21E-05 | 0.00 | .73E-07 | 0.000 | .37E-05 | 90.000 | .161E+04 | 90.000 | 3341.571 | -.388 | .00064 |
| 139. | 3343.295 | -.427 | .21E-05 | 0.00 | .75E-07 | 0.000 | .37E-05 | 90.000 | .160E+04 | 90.000 | 3341.167 | -.407 | .00064 |
| 140. | 3342.850 | -.446 | .21E-05 | 0.00 | .77E-07 | 0.000 | .37E-05 | 90.000 | .160E+04 | 90.000 | 3340.742 | -.426 | .00063 |
| 141. | 3342.387 | -.464 | .21E-05 | 0.00 | .79E-07 | 0.000 | .37E-05 | 90.000 | .159E+04 | 90.000 | 3340.300 | -.443 | .00062 |
| 142. | 3341.907 | -.480 | .21E-05 | 0.00 | .80E-07 | 0.000 | .37E-05 | 90.000 | .159E+04 | 90.000 | 3339.841 | -.459 | .00062 |
| 143. | 3341.410 | -.495 | .21E-05 | 0.00 | .82E-07 | 0.000 | .37E-05 | 90.000 | .157E+04 | 90.000 | 3339.366 | -.474 | .00061 |
| 144. | 3340.900 | -.509 | .21E-05 | 0.00 | .83E-07 | 0.000 | .37E-05 | 90.000 | .157E+04 | 90.000 | 3338.876 | -.488 | .00061 |
| 145. | 3340.376 | -.521 | .21E-05 | 0.00 | .85E-07 | 0.000 | .37E-05 | 90.000 | .156E+04 | 90.000 | 3338.373 | -.500 | .00060 |
| 146. | 3339.840 | -.531 | .21E-05 | 0.00 | .85E-07 | 0.000 | .37E-05 | 90.000 | .155E+04 | 90.000 | 3337.859 | -.511 | .00059 |
| 147. | 3339.295 | -.540 | .21E-05 | 0.00 | .86E-07 | 0.000 | .37E-05 | 90.000 | .154E+04 | 90.000 | 3337.335 | -.520 | .00059 |
| 148. | 3338.741 | -.548 | .21E-05 | 0.00 | .87E-07 | 0.000 | .37E-05 | 90.000 | .153E+04 | 90.000 | 3336.803 | -.527 | .00058 |
| 149. | 3338.182 | -.553 | .21E-05 | 0.00 | .87E-07 | 0.000 | .37E-05 | 90.000 | .153E+04 | 90.000 | 3336.264 | -.533 | .00057 |

Z-CUT BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3337.617 | -.537 | .21E-05 | 0.00 | .87E-07 | 0.000 | .37E-05 | 90.000 | .152E+04 | 90.000 | 3335.720 | -.537 | .00057 |
| 151. | 3337.050 | -.539 | .21E-05 | 0.00 | .87E-07 | 0.000 | .37E-05 | 90.000 | .151E+04 | 90.000 | 3335.173 | -.539 | .00056 |
| 152. | 3336.481 | -.539 | .21E-05 | 0.00 | .87E-07 | 0.000 | .37E-05 | 90.000 | .150E+04 | 90.000 | 3334.625 | -.540 | .00056 |
| 153. | 3335.913 | -.538 | .21E-05 | 0.00 | .86E-07 | 0.000 | .37E-05 | 90.000 | .149E+04 | 90.000 | 3334.077 | -.539 | .00055 |
| 154. | 3335.348 | -.554 | .21E-05 | 0.00 | .85E-07 | 0.000 | .37E-05 | 90.000 | .149E+04 | 90.000 | 3333.532 | -.536 | .00054 |
| 155. | 3334.787 | -.543 | .21E-05 | 0.00 | .84E-07 | 0.000 | .37E-05 | 90.000 | .148E+04 | 90.000 | 3332.990 | -.531 | .00054 |
| 156. | 3334.233 | -.542 | .22E-05 | 0.00 | .83E-07 | 0.000 | .37E-05 | 90.000 | .147E+04 | 90.000 | 3332.454 | -.525 | .00053 |
| 157. | 3333.686 | -.534 | .22E-05 | 0.00 | .82E-07 | 0.000 | .37E-05 | 90.000 | .147E+04 | 90.000 | 3331.925 | -.517 | .00053 |
| 158. | 3333.149 | -.524 | .22E-05 | 0.00 | .80E-07 | 0.000 | .37E-05 | 90.000 | .146E+04 | 90.000 | 3331.406 | -.507 | .00052 |
| 159. | 3332.623 | -.512 | .22E-05 | 0.00 | .78E-07 | 0.000 | .37E-05 | 90.000 | .145E+04 | 90.000 | 3330.897 | -.496 | .00052 |
| 160. | 3332.110 | -.499 | .22E-05 | 0.00 | .76E-07 | 0.000 | .37E-05 | 90.000 | .144E+04 | 90.000 | 3330.401 | -.483 | .00051 |
| 161. | 3331.611 | -.484 | .22E-05 | 0.00 | .74E-07 | 0.000 | .37E-05 | 90.000 | .144E+04 | 90.000 | 3329.918 | -.468 | .00051 |
| 162. | 3331.129 | -.467 | .22E-05 | 0.00 | .71E-07 | 0.000 | .37E-05 | 90.000 | .143E+04 | 90.000 | 3329.451 | -.453 | .00050 |
| 163. | 3330.664 | -.449 | .22E-05 | 0.00 | .68E-07 | 0.000 | .37E-05 | 90.000 | .143E+04 | 90.000 | 3329.001 | -.435 | .00050 |
| 164. | 3330.218 | -.430 | .22E-05 | 0.00 | .66E-07 | 0.000 | .37E-05 | 90.000 | .142E+04 | 90.000 | 3328.568 | -.417 | .00050 |
| 165. | 3329.792 | -.410 | .22E-05 | 0.00 | .62E-07 | 0.000 | .37E-05 | 90.000 | .141E+04 | 90.000 | 3328.156 | -.397 | .00049 |
| 166. | 3329.387 | -.388 | .22E-05 | 0.00 | .59E-07 | 0.000 | .37E-05 | 90.000 | .141E+04 | 90.000 | 3327.763 | -.376 | .00049 |
| 167. | 3329.005 | -.365 | .22E-05 | 0.00 | .56E-07 | 0.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3327.393 | -.354 | .00048 |
| 168. | 3328.647 | -.341 | .22E-05 | 0.00 | .52E-07 | 0.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3327.046 | -.331 | .00048 |
| 169. | 3328.313 | -.316 | .22E-05 | 0.00 | .48E-07 | 0.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3326.723 | -.307 | .00048 |
| 170. | 3328.006 | -.291 | .22E-05 | 0.00 | .44E-07 | 0.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3326.424 | -.282 | .00048 |
| 171. | 3327.725 | -.264 | .22E-05 | 0.00 | .40E-07 | 0.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3326.151 | -.256 | .00047 |
| 172. | 3327.471 | -.236 | .22E-05 | 0.00 | .36E-07 | 0.000 | .37E-05 | 90.000 | .139E+04 | 90.000 | 3325.905 | -.230 | .00047 |
| 173. | 3327.245 | -.208 | .22E-05 | 0.00 | .32E-07 | 0.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.687 | -.202 | .00047 |
| 174. | 3327.049 | -.180 | .22E-05 | 0.00 | .27E-07 | 0.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.496 | -.175 | .00047 |
| 175. | 3326.881 | -.151 | .22E-05 | 0.00 | .23E-07 | 0.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.333 | -.146 | .00047 |
| 176. | 3326.744 | -.121 | .22E-05 | 0.00 | .18E-07 | 0.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.200 | -.117 | .00046 |
| 177. | 3326.636 | -.091 | .22E-05 | 0.00 | .14E-07 | 0.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.095 | -.086 | .00046 |
| 178. | 3326.559 | -.061 | .22E-05 | 0.00 | .93E-08 | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3325.021 | -.059 | .00046 |
| 179. | 3326.513 | -.030 | .22E-05 | 0.00 | .47E-08 | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3324.976 | -.030 | .00046 |
| 180. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3324.961 | 0.000 | .00046 |

X-AXIS BOULE  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3314.183 | 0.000 | .00370 |
| 1. | 3326.516 | 0.000 | .22E-05 | 0.00 | .28E-07 | 90.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3324.973 | 0.000 | .00046 |
| 2. | 3326.573 | 0.000 | .22E-05 | 0.00 | .55E-07 | 90.000 | .37E-05 | 90.000 | .138E+04 | 90.000 | 3325.010 | 0.000 | .00047 |
| 3. | 3326.668 | 0.000 | .22E-05 | 0.00 | .83E-07 | 90.000 | .37E-05 | 90.000 | .140E+04 | 90.000 | 3325.072 | 0.000 | .00048 |
| 4. | 3326.803 | 0.000 | .22E-05 | 0.00 | .11E-06 | 90.000 | .37E-05 | 90.000 | .141E+04 | 90.000 | 3325.159 | 0.000 | .00049 |
| 5. | 3326.978 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .37E-05 | 90.000 | .143E+04 | 90.000 | 3325.274 | 0.000 | .00051 |
| 6. | 3327.194 | 0.000 | .22E-05 | 0.00 | .17E-06 | 90.000 | .37E-05 | 90.000 | .146E+04 | 90.000 | 3325.416 | 0.000 | .00053 |
| 7. | 3327.453 | 0.000 | .22E-05 | 0.00 | .19E-06 | 90.000 | .37E-05 | 90.000 | .149E+04 | 90.000 | 3325.588 | 0.000 | .00056 |
| 8. | 3327.757 | 0.000 | .22E-05 | 0.00 | .22E-06 | 90.000 | .37E-05 | 90.000 | .152E+04 | 90.000 | 3325.791 | 0.000 | .00059 |
| 9. | 3328.108 | 0.000 | .22E-05 | 0.00 | .24E-06 | 90.000 | .37E-05 | 90.000 | .156E+04 | 90.000 | 3326.027 | 0.000 | .00063 |
| 10. | 3328.507 | 0.000 | .22E-05 | 0.00 | .27E-06 | 90.000 | .37E-05 | 90.000 | .160E+04 | 90.000 | 3326.298 | 0.000 | .00066 |
| 11. | 3328.957 | 0.000 | .22E-05 | 0.00 | .30E-06 | 90.000 | .37E-05 | 90.000 | .164E+04 | 90.000 | 3326.605 | 0.000 | .00071 |
| 12. | 3329.458 | 0.000 | .22E-05 | 0.00 | .32E-06 | 90.000 | .37E-05 | 90.000 | .168E+04 | 90.000 | 3326.952 | 0.000 | .00075 |
| 13. | 3330.013 | 0.000 | .22E-05 | 0.00 | .35E-06 | 90.000 | .37E-05 | 90.000 | .173E+04 | 90.000 | 3327.340 | 0.000 | .00080 |
| 14. | 3330.624 | 0.000 | .22E-05 | 0.00 | .37E-06 | 90.000 | .37E-05 | 90.000 | .177E+04 | 90.000 | 3327.771 | 0.000 | .00086 |
| 15. | 3331.292 | 0.000 | .22E-05 | 0.00 | .39E-06 | 90.000 | .37E-05 | 90.000 | .182E+04 | 90.000 | 3328.248 | 0.000 | .00091 |
| 16. | 3332.019 | 0.000 | .22E-05 | 0.00 | .42E-06 | 90.000 | .36E-05 | 90.000 | .187E+04 | 90.000 | 3328.772 | 0.000 | .00097 |
| 17. | 3332.806 | 0.000 | .22E-05 | 0.00 | .44E-06 | 90.000 | .36E-05 | 90.000 | .191E+04 | 90.000 | 3329.347 | 0.000 | .00104 |
| 18. | 3333.653 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .36E-05 | 90.000 | .196E+04 | 90.000 | 3329.973 | 0.000 | .00110 |
| 19. | 3334.562 | 0.000 | .22E-05 | 0.00 | .48E-06 | 90.000 | .36E-05 | 90.000 | .200E+04 | 90.000 | 3330.652 | 0.000 | .00117 |
| 20. | 3335.534 | 0.000 | .22E-05 | 0.00 | .50E-06 | 90.000 | .36E-05 | 90.000 | .204E+04 | 90.000 | 3331.387 | 0.000 | .00124 |
| 21. | 3336.569 | 0.000 | .22E-05 | 0.00 | .53E-06 | 90.000 | .36E-05 | 90.000 | .209E+04 | 90.000 | 3332.179 | 0.000 | .00132 |
| 22. | 3337.667 | 0.000 | .22E-05 | 0.00 | .55E-06 | 90.000 | .36E-05 | 90.000 | .213E+04 | 90.000 | 3333.030 | 0.000 | .00139 |
| 23. | 3338.830 | 0.000 | .22E-05 | 0.00 | .56E-06 | 90.000 | .36E-05 | 90.000 | .217E+04 | 90.000 | 3333.940 | 0.000 | .00146 |
| 24. | 3340.055 | 0.000 | .22E-05 | 0.00 | .58E-06 | 90.000 | .36E-05 | 90.000 | .221E+04 | 90.000 | 3334.912 | 0.000 | .00154 |
| 25. | 3341.345 | 0.000 | .22E-05 | 0.00 | .60E-06 | 90.000 | .36E-05 | 90.000 | .224E+04 | 90.000 | 3335.945 | 0.000 | .00162 |
| 26. | 3342.697 | 0.000 | .22E-05 | 0.00 | .62E-06 | 90.000 | .36E-05 | 90.000 | .227E+04 | 90.000 | 3337.042 | 0.000 | .00169 |
| 27. | 3344.112 | 0.000 | .22E-05 | 0.00 | .64E-06 | 90.000 | .36E-05 | 90.000 | .231E+04 | 90.000 | 3338.202 | 0.000 | .00177 |
| 28. | 3345.589 | 0.000 | .22E-05 | 0.00 | .65E-06 | 90.000 | .35E-05 | 90.000 | .234E+04 | 90.000 | 3339.426 | 0.000 | .00184 |
| 29. | 3347.127 | 0.000 | .22E-05 | 0.00 | .67E-06 | 90.000 | .35E-05 | 90.000 | .236E+04 | 90.000 | 3340.714 | 0.000 | .00192 |
| 30. | 3348.725 | 0.000 | .22E-05 | 0.00 | .68E-06 | 90.000 | .35E-05 | 90.000 | .239E+04 | 90.000 | 3342.067 | 0.000 | .00199 |
| 31. | 3350.382 | 0.000 | .22E-05 | 0.00 | .70E-06 | 90.000 | .35E-05 | 90.000 | .241E+04 | 90.000 | 3343.485 | 0.000 | .00206 |
| 32. | 3352.097 | 0.000 | .22E-05 | 0.00 | .71E-06 | 90.000 | .35E-05 | 90.000 | .243E+04 | 90.000 | 3344.967 | 0.000 | .00213 |
| 33. | 3353.868 | 0.000 | .22E-05 | 0.00 | .72E-06 | 90.000 | .35E-05 | 90.000 | .245E+04 | 90.000 | 3346.513 | 0.000 | .00219 |
| 34. | 3355.694 | 0.000 | .22E-05 | 0.00 | .73E-06 | 90.000 | .35E-05 | 90.000 | .247E+04 | 90.000 | 3348.122 | 0.000 | .00226 |
| 35. | 3357.573 | 0.000 | .22E-05 | 0.00 | .75E-06 | 90.000 | .35E-05 | 90.000 | .248E+04 | 90.000 | 3349.794 | 0.000 | .00232 |
| 36. | 3359.503 | 0.000 | .22E-05 | 0.00 | .76E-06 | 90.000 | .35E-05 | 90.000 | .249E+04 | 90.000 | 3351.529 | 0.000 | .00237 |
| 37. | 3361.483 | 0.000 | .22E-05 | 0.00 | .77E-06 | 90.000 | .34E-05 | 90.000 | .250E+04 | 90.000 | 3353.324 | 0.000 | .00243 |
| 38. | 3363.511 | 0.000 | .22E-05 | 0.00 | .77E-06 | 90.000 | .34E-05 | 90.000 | .251E+04 | 90.000 | 3355.179 | 0.000 | .00248 |
| 39. | 3365.584 | 0.000 | .22E-05 | 0.00 | .78E-06 | 90.000 | .34E-05 | 90.000 | .252E+04 | 90.000 | 3357.093 | 0.000 | .00252 |
| 40. | 3367.701 | 0.000 | .22E-05 | 0.00 | .79E-06 | 90.000 | .34E-05 | 90.000 | .252E+04 | 90.000 | 3359.064 | 0.000 | .00256 |
| 41. | 3369.858 | 0.000 | .22E-05 | 0.00 | .80E-06 | 90.000 | .34E-05 | 90.000 | .252E+04 | 90.000 | 3361.090 | 0.000 | .00260 |
| 42. | 3372.055 | 0.000 | .22E-05 | 0.00 | .80E-06 | 90.000 | .34E-05 | 90.000 | .252E+04 | 90.000 | 3363.170 | 0.000 | .00263 |
| 43. | 3374.288 | 0.000 | .22E-05 | 0.00 | .81E-06 | 90.000 | .34E-05 | 90.000 | .251E+04 | 90.000 | 3365.302 | 0.000 | .00266 |
| 44. | 3376.555 | 0.000 | .22E-05 | 0.00 | .81E-06 | 90.000 | .34E-05 | 90.000 | .251E+04 | 90.000 | 3367.485 | 0.000 | .00269 |
| 45. | 3378.854 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .250E+04 | 90.000 | 3369.715 | 0.000 | .00270 |
| 46. | 3381.181 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .249E+04 | 90.000 | 3371.991 | 0.000 | .00272 |
| 47. | 3383.535 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .248E+04 | 90.000 | 3374.310 | 0.000 | .00273 |
| 48. | 3385.912 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .246E+04 | 90.000 | 3376.671 | 0.000 | .00273 |
| 49. | 3388.309 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .245E+04 | 90.000 | 3379.070 | 0.000 | .00273 |

X-AXIS BOULE  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3390.724 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .243E+04 | 90.000 | 3381.504 | 0.000 | .00272 |
| 51. | 3393.154 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .33E-05 | 90.000 | .241E+04 | 90.000 | 3383.972 | 0.000 | .00271 |
| 52. | 3395.595 | 0.000 | .21E-05 | 0.00 | .82E-06 | 90.000 | .32E-05 | 90.000 | .239E+04 | 90.000 | 3386.470 | 0.000 | .00269 |
| 53. | 3398.045 | 0.000 | .21E-05 | 0.00 | .81E-06 | 90.000 | .32E-05 | 90.000 | .236E+04 | 90.000 | 3388.995 | 0.000 | .00266 |
| 54. | 3400.501 | 0.000 | .21E-05 | 0.00 | .81E-06 | 90.000 | .32E-05 | 90.000 | .234E+04 | 90.000 | 3391.544 | 0.000 | .00263 |
| 55. | 3402.959 | 0.000 | .21E-05 | 0.00 | .80E-06 | 90.000 | .32E-05 | 90.000 | .231E+04 | 90.000 | 3394.114 | 0.000 | .00260 |
| 56. | 3405.416 | 0.000 | .21E-05 | 0.00 | .80E-06 | 90.000 | .32E-05 | 90.000 | .228E+04 | 90.000 | 3396.702 | 0.000 | .00256 |
| 57. | 3407.868 | 0.000 | .21E-05 | 0.00 | .79E-06 | 90.000 | .32E-05 | 90.000 | .225E+04 | 90.000 | 3399.303 | 0.000 | .00251 |
| 58. | 3410.313 | 0.000 | .21E-05 | 0.00 | .79E-06 | 90.000 | .32E-05 | 90.000 | .221E+04 | 90.000 | 3401.915 | 0.000 | .00246 |
| 59. | 3412.746 | 0.000 | .21E-05 | 0.00 | .78E-06 | 90.000 | .32E-05 | 90.000 | .217E+04 | 90.000 | 3404.533 | 0.000 | .00241 |
| 60. | 3415.165 | 0.000 | .21E-05 | 0.00 | .77E-06 | 90.000 | .32E-05 | 90.000 | .214E+04 | 90.000 | 3407.154 | 0.000 | .00235 |
| 61. | 3417.565 | 0.000 | .21E-05 | 0.00 | .76E-06 | 90.000 | .32E-05 | 90.000 | .209E+04 | 90.000 | 3409.774 | 0.000 | .00228 |
| 62. | 3419.943 | 0.000 | .21E-05 | 0.00 | .75E-06 | 90.000 | .32E-05 | 90.000 | .205E+04 | 90.000 | 3412.388 | 0.000 | .00221 |
| 63. | 3422.296 | 0.000 | .21E-05 | 0.00 | .73E-06 | 90.000 | .31E-05 | 90.000 | .201E+04 | 90.000 | 3414.992 | 0.000 | .00213 |
| 64. | 3424.618 | 0.000 | .21E-05 | 0.00 | .72E-06 | 90.000 | .31E-05 | 90.000 | .196E+04 | 90.000 | 3417.582 | 0.000 | .00205 |
| 65. | 3426.906 | 0.000 | .21E-05 | 0.00 | .71E-06 | 90.000 | .31E-05 | 90.000 | .191E+04 | 90.000 | 3420.152 | 0.000 | .00197 |
| 66. | 3429.157 | 0.000 | .21E-05 | 0.00 | .69E-06 | 90.000 | .31E-05 | 90.000 | .186E+04 | 90.000 | 3422.699 | 0.000 | .00188 |
| 67. | 3431.366 | 0.000 | .21E-05 | 0.00 | .67E-06 | 90.000 | .31E-05 | 90.000 | .180E+04 | 90.000 | 3425.216 | 0.000 | .00179 |
| 68. | 3433.528 | 0.000 | .21E-05 | 0.00 | .65E-06 | 90.000 | .31E-05 | 90.000 | .175E+04 | 90.000 | 3427.698 | 0.000 | .00170 |
| 69. | 3435.640 | 0.000 | .21E-05 | 0.00 | .64E-06 | 90.000 | .31E-05 | 90.000 | .169E+04 | 90.000 | 3430.141 | 0.000 | .00160 |
| 70. | 3437.697 | 0.000 | .21E-05 | 0.00 | .62E-06 | 90.000 | .31E-05 | 90.000 | .163E+04 | 90.000 | 3432.537 | 0.000 | .00150 |
| 71. | 3439.694 | 0.000 | .21E-05 | 0.00 | .59E-06 | 90.000 | .31E-05 | 90.000 | .157E+04 | 90.000 | 3434.881 | 0.000 | .00140 |
| 72. | 3441.628 | 0.000 | .21E-05 | 0.00 | .57E-06 | 90.000 | .31E-05 | 90.000 | .150E+04 | 90.000 | 3437.167 | 0.000 | .00130 |
| 73. | 3443.492 | 0.000 | .21E-05 | 0.00 | .55E-06 | 90.000 | .31E-05 | 90.000 | .143E+04 | 90.000 | 3439.387 | 0.000 | .00119 |
| 74. | 3445.284 | 0.000 | .21E-05 | 0.00 | .52E-06 | 90.000 | .31E-05 | 90.000 | .136E+04 | 90.000 | 3441.536 | 0.000 | .00109 |
| 75. | 3446.997 | 0.000 | .21E-05 | 0.00 | .50E-06 | 90.000 | .31E-05 | 90.000 | .129E+04 | 90.000 | 3443.607 | 0.000 | .00098 |
| 76. | 3448.628 | 0.000 | .21E-05 | 0.00 | .47E-06 | 90.000 | .31E-05 | 90.000 | .122E+04 | 90.000 | 3445.592 | 0.000 | .00088 |
| 77. | 3450.172 | 0.000 | .21E-05 | 0.00 | .44E-06 | 90.000 | .31E-05 | 90.000 | .114E+04 | 90.000 | 3447.483 | 0.000 | .00078 |
| 78. | 3451.623 | 0.000 | .21E-05 | 0.00 | .41E-06 | 90.000 | .31E-05 | 90.000 | .106E+04 | 90.000 | 3449.274 | 0.000 | .00068 |
| 79. | 3452.979 | 0.000 | .21E-05 | 0.00 | .38E-06 | 90.000 | .31E-05 | 90.000 | .984E+03 | 90.000 | 3450.958 | 0.000 | .00059 |
| 80. | 3454.233 | 0.000 | .21E-05 | 0.00 | .35E-06 | 90.000 | .31E-05 | 90.000 | .902E+03 | 90.000 | 3452.526 | 0.000 | .00049 |
| 81. | 3455.383 | 0.000 | .21E-05 | 0.00 | .32E-06 | 90.000 | .31E-05 | 90.000 | .817E+03 | 90.000 | 3453.971 | 0.000 | .00041 |
| 82. | 3456.423 | 0.000 | .21E-05 | 0.00 | .29E-06 | 90.000 | .31E-05 | 90.000 | .731E+03 | 90.000 | 3455.287 | 0.000 | .00033 |
| 83. | 3457.351 | 0.000 | .21E-05 | 0.00 | .25E-06 | 90.000 | .31E-05 | 90.000 | .644E+03 | 90.000 | 3456.467 | 0.000 | .00026 |
| 84. | 3458.163 | 0.000 | .21E-05 | 0.00 | .22E-06 | 90.000 | .31E-05 | 90.000 | .555E+03 | 90.000 | 3457.503 | 0.000 | .00019 |
| 85. | 3458.855 | 0.000 | .21E-05 | 0.00 | .18E-06 | 90.000 | .31E-05 | 90.000 | .464E+03 | 90.000 | 3458.391 | 0.000 | .00013 |
| 86. | 3459.425 | 0.000 | .21E-05 | 0.00 | .15E-06 | 90.000 | .31E-05 | 90.000 | .373E+03 | 90.000 | 3459.125 | 0.000 | .00009 |
| 87. | 3459.871 | 0.000 | .21E-05 | 0.00 | .11E-06 | 90.000 | .31E-05 | 90.000 | .280E+03 | 90.000 | 3459.701 | 0.000 | .00005 |
| 88. | 3460.191 | 0.000 | .21E-05 | 0.00 | .74E-07 | 90.000 | .31E-05 | 90.000 | .187E+03 | 90.000 | 3460.115 | 0.000 | .00002 |
| 89. | 3460.383 | 0.000 | .21E-05 | 0.00 | .37E-07 | 90.000 | .31E-05 | 90.000 | .938E+02 | 90.000 | 3460.364 | 0.000 | .00001 |
| 90. | 3460.448 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | 0. | 0.000 | 3460.448 | 0.000 | 0.00000 |
| 91. | 3460.383 | 0.000 | .21E-05 | 0.00 | .37E-07 | -90.000 | .31E-05 | 90.000 | .938E+02 | -90.000 | 3460.364 | 0.000 | .00001 |
| 92. | 3460.191 | 0.000 | .21E-05 | 0.00 | .74E-07 | -90.000 | .31E-05 | 90.000 | .187E+03 | -90.000 | 3460.115 | 0.000 | .00002 |
| 93. | 3459.871 | 0.000 | .21E-05 | 0.00 | .11E-06 | -90.000 | .31E-05 | 90.000 | .280E+03 | -90.000 | 3459.701 | 0.000 | .00005 |
| 94. | 3459.425 | 0.000 | .21E-05 | 0.00 | .15E-06 | -90.000 | .31E-05 | 90.000 | .373E+03 | -90.000 | 3459.125 | 0.000 | .00009 |
| 95. | 3458.855 | 0.000 | .21E-05 | 0.00 | .18E-06 | -90.000 | .31E-05 | 90.000 | .464E+03 | -90.000 | 3458.391 | 0.000 | .00013 |
| 96. | 3458.163 | 0.000 | .21E-05 | 0.00 | .22E-06 | -90.000 | .31E-05 | 90.000 | .555E+03 | -90.000 | 3457.503 | 0.000 | .00019 |
| 97. | 3457.351 | 0.000 | .21E-05 | 0.00 | .25E-06 | -90.000 | .31E-05 | 90.000 | .644E+03 | -90.000 | 3456.467 | 0.000 | .00026 |
| 98. | 3456.423 | 0.000 | .21E-05 | 0.00 | .29E-06 | -90.000 | .31E-05 | 90.000 | .731E+03 | -90.000 | 3455.287 | 0.000 | .00033 |
| 99. | 3455.383 | 0.000 | .21E-05 | 0.00 | .32E-06 | -90.000 | .31E-05 | 90.000 | .817E+03 | -90.000 | 3453.971 | 0.000 | .00041 |

X-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3454.233 | 0.000 | .21E-05 | 0.00 | .35E-06 | -90.000 | .31E-05 | 90.000 | .902E+03 | -90.000 | 3452.526 | 0.000 | .00049 |
| 101. | 3452.979 | 0.000 | .21E-05 | 0.00 | .38E-06 | -90.000 | .31E-05 | 90.000 | .984E+03 | -90.000 | 3450.958 | 0.000 | .00059 |
| 102. | 3451.623 | 0.000 | .21E-05 | 0.00 | .41E-06 | -90.000 | .31E-05 | 90.000 | .106E+04 | -90.000 | 3449.274 | 0.000 | .00068 |
| 103. | 3450.172 | 0.000 | .21E-05 | 0.00 | .44E-06 | -90.000 | .31E-05 | 90.000 | .114E+04 | -90.000 | 3447.483 | 0.000 | .00078 |
| 104. | 3448.628 | 0.000 | .21E-05 | 0.00 | .47E-06 | -90.000 | .31E-05 | 90.000 | .122E+04 | -90.000 | 3445.592 | 0.000 | .00088 |
| 105. | 3446.997 | 0.000 | .21E-05 | 0.00 | .50E-06 | -90.000 | .31E-05 | 90.000 | .129E+04 | -90.000 | 3443.607 | 0.000 | .00098 |
| 106. | 3445.284 | 0.000 | .21E-05 | 0.00 | .52E-06 | -90.000 | .31E-05 | 90.000 | .136E+04 | -90.000 | 3441.536 | 0.000 | .00109 |
| 107. | 3443.492 | 0.000 | .21E-05 | 0.00 | .55E-06 | -90.000 | .31E-05 | 90.000 | .143E+04 | -90.000 | 3439.387 | 0.000 | .00119 |
| 108. | 3441.628 | 0.000 | .21E-05 | 0.00 | .57E-06 | -90.000 | .31E-05 | 90.000 | .150E+04 | -90.000 | 3437.167 | 0.000 | .00130 |
| 109. | 3439.694 | 0.000 | .21E-05 | 0.00 | .59E-06 | -90.000 | .31E-05 | 90.000 | .157E+04 | -90.000 | 3434.881 | 0.000 | .00140 |
| 110. | 3437.697 | 0.000 | .21E-05 | 0.00 | .62E-06 | -90.000 | .31E-05 | 90.000 | .163E+04 | -90.000 | 3432.537 | 0.000 | .00150 |
| 111. | 3435.640 | 0.000 | .21E-05 | 0.00 | .64E-06 | -90.000 | .31E-05 | 90.000 | .169E+04 | -90.000 | 3430.141 | 0.000 | .00160 |
| 112. | 3433.528 | 0.000 | .21E-05 | 0.00 | .65E-06 | -90.000 | .31E-05 | 90.000 | .175E+04 | -90.000 | 3427.698 | 0.000 | .00170 |
| 113. | 3431.366 | 0.000 | .21E-05 | 0.00 | .67E-06 | -90.000 | .31E-05 | 90.000 | .180E+04 | -90.000 | 3425.216 | 0.000 | .00179 |
| 114. | 3429.157 | 0.000 | .21E-05 | 0.00 | .69E-06 | -90.000 | .31E-05 | 90.000 | .186E+04 | -90.000 | 3422.699 | 0.000 | .00188 |
| 115. | 3426.906 | 0.000 | .21E-05 | 0.00 | .71E-06 | -90.000 | .31E-05 | 90.000 | .191E+04 | -90.000 | 3420.152 | 0.000 | .00197 |
| 116. | 3424.618 | 0.000 | .21E-05 | 0.00 | .72E-06 | -90.000 | .31E-05 | 90.000 | .196E+04 | -90.000 | 3417.582 | 0.000 | .00205 |
| 117. | 3422.296 | 0.000 | .21E-05 | 0.00 | .73E-06 | -90.000 | .31E-05 | 90.000 | .201E+04 | -90.000 | 3414.992 | 0.000 | .00213 |
| 118. | 3419.943 | 0.000 | .21E-05 | 0.00 | .75E-06 | -90.000 | .32E-05 | 90.000 | .205E+04 | -90.000 | 3412.388 | 0.000 | .00221 |
| 119. | 3417.565 | 0.000 | .21E-05 | 0.00 | .76E-06 | -90.000 | .32E-05 | 90.000 | .209E+04 | -90.000 | 3409.774 | 0.000 | .00228 |
| 120. | 3415.165 | 0.000 | .21E-05 | 0.00 | .77E-06 | -90.000 | .32E-05 | 90.000 | .214E+04 | -90.000 | 3407.154 | 0.000 | .00235 |
| 121. | 3412.746 | 0.000 | .21E-05 | 0.00 | .78E-06 | -90.000 | .32E-05 | 90.000 | .217E+04 | -90.000 | 3404.533 | 0.000 | .00241 |
| 122. | 3410.313 | 0.000 | .21E-05 | 0.00 | .79E-06 | -90.000 | .32E-05 | 90.000 | .221E+04 | -90.000 | 3401.915 | 0.000 | .00246 |
| 123. | 3407.868 | 0.000 | .21E-05 | 0.00 | .79E-06 | -90.000 | .32E-05 | 90.000 | .225E+04 | -90.000 | 3399.303 | 0.000 | .00251 |
| 124. | 3405.416 | 0.000 | .21E-05 | 0.00 | .80E-06 | -90.000 | .32E-05 | 90.000 | .228E+04 | -90.000 | 3396.702 | 0.000 | .00256 |
| 125. | 3402.959 | 0.000 | .21E-05 | 0.00 | .80E-06 | -90.000 | .32E-05 | 90.000 | .231E+04 | -90.000 | 3394.114 | 0.000 | .00260 |
| 126. | 3400.501 | 0.000 | .21E-05 | 0.00 | .81E-06 | -90.000 | .32E-05 | 90.000 | .234E+04 | -90.000 | 3391.544 | 0.000 | .00263 |
| 127. | 3398.045 | 0.000 | .21E-05 | 0.00 | .81E-06 | -90.000 | .32E-05 | 90.000 | .236E+04 | -90.000 | 3388.995 | 0.000 | .00266 |
| 128. | 3395.595 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .32E-05 | 90.000 | .239E+04 | -90.000 | 3386.470 | 0.000 | .00269 |
| 129. | 3393.154 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .241E+04 | -90.000 | 3383.972 | 0.000 | .00271 |
| 130. | 3390.724 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .243E+04 | -90.000 | 3381.504 | 0.000 | .00272 |
| 131. | 3388.309 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .245E+04 | -90.000 | 3379.070 | 0.000 | .00273 |
| 132. | 3385.912 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .246E+04 | -90.000 | 3376.671 | 0.000 | .00273 |
| 133. | 3383.535 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .248E+04 | -90.000 | 3374.310 | 0.000 | .00273 |
| 134. | 3381.181 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .249E+04 | -90.000 | 3371.991 | 0.000 | .00272 |
| 135. | 3378.854 | 0.000 | .21E-05 | 0.00 | .82E-06 | -90.000 | .33E-05 | 90.000 | .250E+04 | -90.000 | 3369.715 | 0.000 | .00270 |
| 136. | 3376.555 | 0.000 | .22E-05 | 0.00 | .81E-06 | -90.000 | .34E-05 | 90.000 | .251E+04 | -90.000 | 3367.485 | 0.000 | .00269 |
| 137. | 3374.288 | 0.000 | .22E-05 | 0.00 | .81E-06 | -90.000 | .34E-05 | 90.000 | .251E+04 | -90.000 | 3365.302 | 0.000 | .00266 |
| 138. | 3372.055 | 0.000 | .22E-05 | 0.00 | .80E-06 | -90.000 | .34E-05 | 90.000 | .252E+04 | -90.000 | 3363.170 | 0.000 | .00263 |
| 139. | 3369.858 | 0.000 | .22E-05 | 0.00 | .80E-06 | -90.000 | .34E-05 | 90.000 | .252E+04 | -90.000 | 3361.090 | 0.000 | .00260 |
| 140. | 3367.701 | 0.000 | .22E-05 | 0.00 | .79E-06 | -90.000 | .34E-05 | 90.000 | .252E+04 | -90.000 | 3359.064 | 0.000 | .00256 |
| 141. | 3365.584 | 0.000 | .22E-05 | 0.00 | .78E-06 | -90.000 | .34E-05 | 90.000 | .252E+04 | -90.000 | 3357.093 | 0.000 | .00252 |
| 142. | 3363.511 | 0.000 | .22E-05 | 0.00 | .77E-06 | -90.000 | .34E-05 | 90.000 | .251E+04 | -90.000 | 3355.179 | 0.000 | .00248 |
| 143. | 3361.483 | 0.000 | .22E-05 | 0.00 | .77E-06 | -90.000 | .34E-05 | 90.000 | .250E+04 | -90.000 | 3353.324 | 0.000 | .00243 |
| 144. | 3359.503 | 0.000 | .22E-05 | 0.00 | .76E-06 | -90.000 | .35E-05 | 90.000 | .249E+04 | -90.000 | 3351.529 | 0.000 | .00237 |
| 145. | 3357.573 | 0.000 | .22E-05 | 0.00 | .75E-06 | -90.000 | .35E-05 | 90.000 | .248E+04 | -90.000 | 3349.794 | 0.000 | .00232 |
| 146. | 3355.694 | 0.000 | .22E-05 | 0.00 | .73E-06 | -90.000 | .35E-05 | 90.000 | .247E+04 | -90.000 | 3348.122 | 0.000 | .00226 |
| 147. | 3353.868 | 0.000 | .22E-05 | 0.00 | .72E-06 | -90.000 | .35E-05 | 90.000 | .245E+04 | -90.000 | 3346.513 | 0.000 | .00219 |
| 148. | 3352.097 | 0.000 | .22E-05 | 0.00 | .71E-06 | -90.000 | .35E-05 | 90.000 | .243E+04 | -90.000 | 3344.967 | 0.000 | .00213 |
| 149. | 3350.382 | 0.000 | .22E-05 | 0.00 | .70E-06 | -90.000 | .35E-05 | 90.000 | .241E+04 | -90.000 | 3343.485 | 0.000 | .00206 |

X-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3348.725 | 0.000 | .22E-05 | 0.00 | .68E-06 | -90.000 | .35E-05 | 90.000 | .239E+04 | -90.000 | 3342.067 | 0.000 | .00199 |
| 151. | 3347.127 | 0.000 | .22E-05 | 0.00 | .67E-06 | -90.000 | .35E-05 | 90.000 | .236E+04 | -90.000 | 3340.714 | 0.000 | .00192 |
| 152. | 3345.589 | 0.000 | .22E-05 | 0.00 | .65E-06 | -90.000 | .35E-05 | 90.000 | .234E+04 | -90.000 | 3339.426 | 0.000 | .00184 |
| 153. | 3344.112 | 0.000 | .22E-05 | 0.00 | .64E-06 | -90.000 | .36E-05 | 90.000 | .231E+04 | -90.000 | 3338.202 | 0.000 | .00177 |
| 154. | 3342.697 | 0.000 | .22E-05 | 0.00 | .62E-06 | -90.000 | .36E-05 | 90.000 | .227E+04 | -90.000 | 3337.042 | 0.000 | .00169 |
| 155. | 3341.345 | 0.000 | .22E-05 | 0.00 | .60E-06 | -90.000 | .36E-05 | 90.000 | .224E+04 | -90.000 | 3335.945 | 0.000 | .00162 |
| 156. | 3340.055 | 0.000 | .22E-05 | 0.00 | .58E-06 | -90.000 | .36E-05 | 90.000 | .221E+04 | -90.000 | 3334.912 | 0.000 | .00154 |
| 157. | 3338.830 | 0.000 | .22E-05 | 0.00 | .56E-06 | -90.000 | .36E-05 | 90.000 | .217E+04 | -90.000 | 3333.940 | 0.000 | .00146 |
| 158. | 3337.667 | 0.000 | .22E-05 | 0.00 | .55E-06 | -90.000 | .36E-05 | 90.000 | .213E+04 | -90.000 | 3333.030 | 0.000 | .00139 |
| 159. | 3336.569 | 0.000 | .22E-05 | 0.00 | .53E-06 | -90.000 | .36E-05 | 90.000 | .209E+04 | -90.000 | 3332.179 | 0.000 | .00132 |
| 160. | 3335.534 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .36E-05 | 90.000 | .204E+04 | -90.000 | 3331.387 | 0.000 | .00124 |
| 161. | 3334.562 | 0.000 | .22E-05 | 0.00 | .48E-06 | -90.000 | .36E-05 | 90.000 | .200E+04 | -90.000 | 3330.652 | 0.000 | .00117 |
| 162. | 3333.653 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .36E-05 | 90.000 | .196E+04 | -90.000 | 3329.973 | 0.000 | .00110 |
| 163. | 3332.806 | 0.000 | .22E-05 | 0.00 | .44E-06 | -90.000 | .36E-05 | 90.000 | .191E+04 | -90.000 | 3329.347 | 0.000 | .00104 |
| 164. | 3332.019 | 0.000 | .22E-05 | 0.00 | .42E-06 | -90.000 | .36E-05 | 90.000 | .187E+04 | -90.000 | 3328.772 | 0.000 | .00097 |
| 165. | 3331.292 | 0.000 | .22E-05 | 0.00 | .39E-06 | -90.000 | .37E-05 | 90.000 | .182E+04 | -90.000 | 3328.248 | 0.000 | .00091 |
| 166. | 3330.624 | 0.000 | .22E-05 | 0.00 | .37E-06 | -90.000 | .37E-05 | 90.000 | .177E+04 | -90.000 | 3327.771 | 0.000 | .00086 |
| 167. | 3330.013 | 0.000 | .22E-05 | 0.00 | .35E-06 | -90.000 | .37E-05 | 90.000 | .173E+04 | -90.000 | 3327.340 | 0.000 | .00080 |
| 168. | 3329.458 | 0.000 | .22E-05 | 0.00 | .32E-06 | -90.000 | .37E-05 | 90.000 | .168E+04 | -90.000 | 3326.952 | 0.000 | .00075 |
| 169. | 3328.957 | 0.000 | .22E-05 | 0.00 | .30E-06 | -90.000 | .37E-05 | 90.000 | .164E+04 | -90.000 | 3326.605 | 0.000 | .00071 |
| 170. | 3328.507 | 0.000 | .22E-05 | 0.00 | .27E-06 | -90.000 | .37E-05 | 90.000 | .160E+04 | -90.000 | 3326.298 | 0.000 | .00066 |
| 171. | 3328.108 | 0.000 | .22E-05 | 0.00 | .24E-06 | -90.000 | .37E-05 | 90.000 | .156E+04 | -90.000 | 3326.027 | 0.000 | .00063 |
| 172. | 3327.757 | 0.000 | .22E-05 | 0.00 | .22E-06 | -90.000 | .37E-05 | 90.000 | .152E+04 | -90.000 | 3325.791 | 0.000 | .00059 |
| 173. | 3327.453 | 0.000 | .22E-05 | 0.00 | .19E-06 | -90.000 | .37E-05 | 90.000 | .149E+04 | -90.000 | 3325.588 | 0.000 | .00056 |
| 174. | 3327.194 | 0.000 | .22E-05 | 0.00 | .17E-06 | -90.000 | .37E-05 | 90.000 | .146E+04 | -90.000 | 3325.416 | 0.000 | .00053 |
| 175. | 3326.978 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .37E-05 | 90.000 | .143E+04 | -90.000 | 3325.274 | 0.000 | .00051 |
| 176. | 3326.803 | 0.000 | .22E-05 | 0.00 | .11E-06 | -90.000 | .37E-05 | 90.000 | .141E+04 | -90.000 | 3325.159 | 0.000 | .00049 |
| 177. | 3326.668 | 0.000 | .22E-05 | 0.00 | .83E-07 | -90.000 | .37E-05 | 90.000 | .140E+04 | -90.000 | 3325.072 | 0.000 | .00048 |
| 178. | 3326.573 | 0.000 | .22E-05 | 0.00 | .55E-07 | -90.000 | .37E-05 | 90.000 | .138E+04 | -90.000 | 3325.010 | 0.000 | .00047 |
| 179. | 3326.516 | 0.000 | .22E-05 | 0.00 | .28E-07 | -90.000 | .37E-05 | 90.000 | .138E+04 | -90.000 | 3324.973 | 0.000 | .00046 |
| 180. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | -90.000 | 3324.961 | 0.000 | .00046 |

Y-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV//INF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3346.406 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.809 | 0.000 | .00078 |
| 1. | 3346.423 | 0.000 | .22E-05 | 0.00 | .26E-07 | 90.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.817 | 0.000 | .00078 |
| 2. | 3346.474 | 0.000 | .22E-05 | 0.00 | .52E-07 | 90.000 | .37E-05 | 90.000 | .177E+04 | 90.000 | 3343.840 | 0.000 | .00079 |
| 3. | 3346.560 | 0.000 | .22E-05 | 0.00 | .78E-07 | 90.000 | .37E-05 | 90.000 | .178E+04 | 90.000 | 3343.880 | 0.000 | .00080 |
| 4. | 3346.682 | 0.000 | .22E-05 | 0.00 | .10E-06 | 90.000 | .37E-05 | 90.000 | .180E+04 | 90.000 | 3343.937 | 0.000 | .00082 |
| 5. | 3346.840 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .37E-05 | 90.000 | .182E+04 | 90.000 | 3344.012 | 0.000 | .00084 |
| 6. | 3347.036 | 0.000 | .22E-05 | 0.00 | .16E-06 | 90.000 | .37E-05 | 90.000 | .185E+04 | 90.000 | 3344.106 | 0.000 | .00088 |
| 7. | 3347.272 | 0.000 | .22E-05 | 0.00 | .18E-06 | 90.000 | .37E-05 | 90.000 | .188E+04 | 90.000 | 3344.223 | 0.000 | .00091 |
| 8. | 3347.549 | 0.000 | .22E-05 | 0.00 | .20E-06 | 90.000 | .37E-05 | 90.000 | .191E+04 | 90.000 | 3344.362 | 0.000 | .00095 |
| 9. | 3347.870 | 0.000 | .22E-05 | 0.00 | .23E-06 | 90.000 | .37E-05 | 90.000 | .195E+04 | 90.000 | 3344.527 | 0.000 | .00100 |
| 10. | 3348.236 | 0.000 | .22E-05 | 0.00 | .25E-06 | 90.000 | .37E-05 | 90.000 | .199E+04 | 90.000 | 3344.721 | 0.000 | .00105 |
| 11. | 3348.649 | 0.000 | .22E-05 | 0.00 | .28E-06 | 90.000 | .37E-05 | 90.000 | .203E+04 | 90.000 | 3344.944 | 0.000 | .00111 |
| 12. | 3349.111 | 0.000 | .22E-05 | 0.00 | .30E-06 | 90.000 | .37E-05 | 90.000 | .207E+04 | 90.000 | 3345.200 | 0.000 | .00117 |
| 13. | 3349.624 | 0.000 | .22E-05 | 0.00 | .32E-06 | 90.000 | .37E-05 | 90.000 | .212E+04 | 90.000 | 3345.492 | 0.000 | .00123 |
| 14. | 3350.189 | 0.000 | .22E-05 | 0.00 | .35E-06 | 90.000 | .37E-05 | 90.000 | .216E+04 | 90.000 | 3345.821 | 0.000 | .00130 |
| 15. | 3350.809 | 0.000 | .22E-05 | 0.00 | .37E-06 | 90.000 | .36E-05 | 90.000 | .221E+04 | 90.000 | 3346.191 | 0.000 | .00138 |
| 16. | 3351.484 | 0.000 | .22E-05 | 0.00 | .39E-06 | 90.000 | .36E-05 | 90.000 | .226E+04 | 90.000 | 3346.604 | 0.000 | .00146 |
| 17. | 3352.215 | 0.000 | .22E-05 | 0.00 | .41E-06 | 90.000 | .36E-05 | 90.000 | .230E+04 | 90.000 | 3347.063 | 0.000 | .00154 |
| 18. | 3353.005 | 0.000 | .22E-05 | 0.00 | .43E-06 | 90.000 | .36E-05 | 90.000 | .235E+04 | 90.000 | 3347.569 | 0.000 | .00162 |
| 19. | 3353.852 | 0.000 | .22E-05 | 0.00 | .45E-06 | 90.000 | .36E-05 | 90.000 | .239E+04 | 90.000 | 3348.125 | 0.000 | .00171 |
| 20. | 3354.759 | 0.000 | .22E-05 | 0.00 | .47E-06 | 90.000 | .36E-05 | 90.000 | .243E+04 | 90.000 | 3348.733 | 0.000 | .00180 |
| 21. | 3355.724 | 0.000 | .22E-05 | 0.00 | .49E-06 | 90.000 | .36E-05 | 90.000 | .248E+04 | 90.000 | 3349.394 | 0.000 | .00189 |
| 22. | 3356.749 | 0.000 | .22E-05 | 0.00 | .51E-06 | 90.000 | .36E-05 | 90.000 | .252E+04 | 90.000 | 3350.111 | 0.000 | .00198 |
| 23. | 3357.834 | 0.000 | .22E-05 | 0.00 | .52E-06 | 90.000 | .36E-05 | 90.000 | .255E+04 | 90.000 | 3350.885 | 0.000 | .00207 |
| 24. | 3358.977 | 0.000 | .22E-05 | 0.00 | .54E-06 | 90.000 | .36E-05 | 90.000 | .259E+04 | 90.000 | 3351.718 | 0.000 | .00216 |
| 25. | 3360.179 | 0.000 | .22E-05 | 0.00 | .56E-06 | 90.000 | .36E-05 | 90.000 | .262E+04 | 90.000 | 3352.610 | 0.000 | .00225 |
| 26. | 3361.439 | 0.000 | .22E-05 | 0.00 | .57E-06 | 90.000 | .36E-05 | 90.000 | .265E+04 | 90.000 | 3353.562 | 0.000 | .00234 |
| 27. | 3362.757 | 0.000 | .22E-05 | 0.00 | .59E-06 | 90.000 | .35E-05 | 90.000 | .268E+04 | 90.000 | 3354.575 | 0.000 | .00243 |
| 28. | 3364.130 | 0.000 | .22E-05 | 0.00 | .60E-06 | 90.000 | .35E-05 | 90.000 | .271E+04 | 90.000 | 3355.651 | 0.000 | .00252 |
| 29. | 3365.559 | 0.000 | .22E-05 | 0.00 | .62E-06 | 90.000 | .35E-05 | 90.000 | .273E+04 | 90.000 | 3356.788 | 0.000 | .00261 |
| 30. | 3367.041 | 0.000 | .22E-05 | 0.00 | .63E-06 | 90.000 | .35E-05 | 90.000 | .276E+04 | 90.000 | 3357.987 | 0.000 | .00269 |
| 31. | 3368.577 | 0.000 | .22E-05 | 0.00 | .64E-06 | 90.000 | .35E-05 | 90.000 | .278E+04 | 90.000 | 3359.249 | 0.000 | .00277 |
| 32. | 3370.163 | 0.000 | .21E-05 | 0.00 | .65E-06 | 90.000 | .35E-05 | 90.000 | .279E+04 | 90.000 | 3360.572 | 0.000 | .00285 |
| 33. | 3371.799 | 0.000 | .21E-05 | 0.00 | .67E-06 | 90.000 | .35E-05 | 90.000 | .281E+04 | 90.000 | 3361.957 | 0.000 | .00292 |
| 34. | 3373.482 | 0.000 | .21E-05 | 0.00 | .67E-06 | 90.000 | .35E-05 | 90.000 | .282E+04 | 90.000 | 3363.404 | 0.000 | .00299 |
| 35. | 3375.212 | 0.000 | .21E-05 | 0.00 | .69E-06 | 90.000 | .35E-05 | 90.000 | .283E+04 | 90.000 | 3364.910 | 0.000 | .00305 |
| 36. | 3376.985 | 0.000 | .21E-05 | 0.00 | .69E-06 | 90.000 | .34E-05 | 90.000 | .283E+04 | 90.000 | 3366.475 | 0.000 | .00311 |
| 37. | 3378.801 | 0.000 | .21E-05 | 0.00 | .70E-06 | 90.000 | .34E-05 | 90.000 | .284E+04 | 90.000 | 3368.099 | 0.000 | .00317 |
| 38. | 3380.656 | 0.000 | .21E-05 | 0.00 | .71E-06 | 90.000 | .34E-05 | 90.000 | .284E+04 | 90.000 | 3369.780 | 0.000 | .00322 |
| 39. | 3382.550 | 0.000 | .21E-05 | 0.00 | .72E-06 | 90.000 | .34E-05 | 90.000 | .284E+04 | 90.000 | 3371.517 | 0.000 | .00326 |
| 40. | 3384.479 | 0.000 | .21E-05 | 0.00 | .72E-06 | 90.000 | .34E-05 | 90.000 | .283E+04 | 90.000 | 3373.307 | 0.000 | .00330 |
| 41. | 3386.442 | 0.000 | .21E-05 | 0.00 | .73E-06 | 90.000 | .34E-05 | 90.000 | .283E+04 | 90.000 | 3375.150 | 0.000 | .00333 |
| 42. | 3388.436 | 0.000 | .21E-05 | 0.00 | .73E-06 | 90.000 | .34E-05 | 90.000 | .282E+04 | 90.000 | 3377.044 | 0.000 | .00336 |
| 43. | 3390.459 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .34E-05 | 90.000 | .281E+04 | 90.000 | 3378.987 | 0.000 | .00338 |
| 44. | 3392.508 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .34E-05 | 90.000 | .280E+04 | 90.000 | 3380.976 | 0.000 | .00340 |
| 45. | 3394.580 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .278E+04 | 90.000 | 3383.010 | 0.000 | .00341 |
| 46. | 3396.674 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .277E+04 | 90.000 | 3385.087 | 0.000 | .00341 |
| 47. | 3398.787 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .275E+04 | 90.000 | 3387.204 | 0.000 | .00341 |
| 48. | 3400.916 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .273E+04 | 90.000 | 3389.358 | 0.000 | .00340 |
| 49. | 3403.058 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .270E+04 | 90.000 | 3391.547 | 0.000 | .00338 |

Y-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3405.211 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .268E+04 | 90.000 | 3393.769 | 0.000 | .00336 |
| 51. | 3407.372 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .265E+04 | 90.000 | 3396.021 | 0.000 | .00333 |
| 52. | 3409.538 | 0.000 | .21E-05 | 0.00 | .74E-06 | 90.000 | .33E-05 | 90.000 | .262E+04 | 90.000 | 3398.300 | 0.000 | .00330 |
| 53. | 3411.706 | 0.000 | .21E-05 | 0.00 | .73E-06 | 90.000 | .33E-05 | 90.000 | .259E+04 | 90.000 | 3400.602 | 0.000 | .00325 |
| 54. | 3413.874 | 0.000 | .21E-05 | 0.00 | .73E-06 | 90.000 | .32E-05 | 90.000 | .255E+04 | 90.000 | 3402.926 | 0.000 | .00321 |
| 55. | 3416.038 | 0.000 | .21E-05 | 0.00 | .72E-06 | 90.000 | .32E-05 | 90.000 | .252E+04 | 90.000 | 3405.267 | 0.000 | .00315 |
| 56. | 3418.196 | 0.000 | .21E-05 | 0.00 | .71E-06 | 90.000 | .32E-05 | 90.000 | .248E+04 | 90.000 | 3407.623 | 0.000 | .00309 |
| 57. | 3420.345 | 0.000 | .21E-05 | 0.00 | .71E-06 | 90.000 | .32E-05 | 90.000 | .244E+04 | 90.000 | 3409.990 | 0.000 | .00303 |
| 58. | 3422.481 | 0.000 | .21E-05 | 0.00 | .70E-06 | 90.000 | .32E-05 | 90.000 | .239E+04 | 90.000 | 3412.365 | 0.000 | .00296 |
| 59. | 3424.602 | 0.000 | .21E-05 | 0.00 | .69E-06 | 90.000 | .32E-05 | 90.000 | .235E+04 | 90.000 | 3414.744 | 0.000 | .00288 |
| 60. | 3426.704 | 0.000 | .21E-05 | 0.00 | .68E-06 | 90.000 | .32E-05 | 90.000 | .230E+04 | 90.000 | 3417.124 | 0.000 | .00280 |
| 61. | 3428.785 | 0.000 | .21E-05 | 0.00 | .67E-06 | 90.000 | .32E-05 | 90.000 | .225E+04 | 90.000 | 3419.501 | 0.000 | .00271 |
| 62. | 3430.841 | 0.000 | .21E-05 | 0.00 | .66E-06 | 90.000 | .32E-05 | 90.000 | .220E+04 | 90.000 | 3421.870 | 0.000 | .00261 |
| 63. | 3432.868 | 0.000 | .21E-05 | 0.00 | .65E-06 | 90.000 | .32E-05 | 90.000 | .215E+04 | 90.000 | 3424.228 | 0.000 | .00252 |
| 64. | 3434.864 | 0.000 | .21E-05 | 0.00 | .63E-06 | 90.000 | .32E-05 | 90.000 | .210E+04 | 90.000 | 3426.570 | 0.000 | .00241 |
| 65. | 3436.826 | 0.000 | .21E-05 | 0.00 | .62E-06 | 90.000 | .32E-05 | 90.000 | .204E+04 | 90.000 | 3428.892 | 0.000 | .00231 |
| 66. | 3438.749 | 0.000 | .21E-05 | 0.00 | .60E-06 | 90.000 | .32E-05 | 90.000 | .198E+04 | 90.000 | 3431.190 | 0.000 | .00220 |
| 67. | 3440.631 | 0.000 | .21E-05 | 0.00 | .59E-06 | 90.000 | .31E-05 | 90.000 | .192E+04 | 90.000 | 3433.459 | 0.000 | .00208 |
| 68. | 3442.468 | 0.000 | .21E-05 | 0.00 | .57E-06 | 90.000 | .31E-05 | 90.000 | .185E+04 | 90.000 | 3435.694 | 0.000 | .00197 |
| 69. | 3444.257 | 0.000 | .21E-05 | 0.00 | .55E-06 | 90.000 | .31E-05 | 90.000 | .179E+04 | 90.000 | 3437.889 | 0.000 | .00185 |
| 70. | 3445.993 | 0.000 | .21E-05 | 0.00 | .54E-06 | 90.000 | .31E-05 | 90.000 | .172E+04 | 90.000 | 3440.040 | 0.000 | .00173 |
| 71. | 3447.675 | 0.000 | .21E-05 | 0.00 | .52E-06 | 90.000 | .31E-05 | 90.000 | .165E+04 | 90.000 | 3442.142 | 0.000 | .00160 |
| 72. | 3449.298 | 0.000 | .21E-05 | 0.00 | .50E-06 | 90.000 | .31E-05 | 90.000 | .158E+04 | 90.000 | 3444.188 | 0.000 | .00148 |
| 73. | 3450.858 | 0.000 | .21E-05 | 0.00 | .47E-06 | 90.000 | .31E-05 | 90.000 | .151E+04 | 90.000 | 3446.172 | 0.000 | .00136 |
| 74. | 3452.352 | 0.000 | .21E-05 | 0.00 | .45E-06 | 90.000 | .31E-05 | 90.000 | .143E+04 | 90.000 | 3448.090 | 0.000 | .00123 |
| 75. | 3453.778 | 0.000 | .21E-05 | 0.00 | .43E-06 | 90.000 | .31E-05 | 90.000 | .135E+04 | 90.000 | 3449.934 | 0.000 | .00111 |
| 76. | 3455.130 | 0.000 | .21E-05 | 0.00 | .40E-06 | 90.000 | .31E-05 | 90.000 | .127E+04 | 90.000 | 3451.700 | 0.000 | .00099 |
| 77. | 3456.407 | 0.000 | .21E-05 | 0.00 | .38E-06 | 90.000 | .31E-05 | 90.000 | .119E+04 | 90.000 | 3453.379 | 0.000 | .00088 |
| 78. | 3457.604 | 0.000 | .21E-05 | 0.00 | .35E-06 | 90.000 | .31E-05 | 90.000 | .111E+04 | 90.000 | 3454.967 | 0.000 | .00076 |
| 79. | 3458.718 | 0.000 | .21E-05 | 0.00 | .33E-06 | 90.000 | .31E-05 | 90.000 | .102E+04 | 90.000 | 3456.457 | 0.000 | .00065 |
| 80. | 3459.747 | 0.000 | .21E-05 | 0.00 | .30E-06 | 90.000 | .31E-05 | 90.000 | .934E+03 | 90.000 | 3457.843 | 0.000 | .00055 |
| 81. | 3460.688 | 0.000 | .21E-05 | 0.00 | .27E-06 | 90.000 | .31E-05 | 90.000 | .845E+03 | 90.000 | 3459.118 | 0.000 | .00045 |
| 82. | 3461.538 | 0.000 | .21E-05 | 0.00 | .24E-06 | 90.000 | .31E-05 | 90.000 | .755E+03 | 90.000 | 3460.277 | 0.000 | .00036 |
| 83. | 3462.294 | 0.000 | .21E-05 | 0.00 | .21E-06 | 90.000 | .31E-05 | 90.000 | .664E+03 | 90.000 | 3461.315 | 0.000 | .00028 |
| 84. | 3462.954 | 0.000 | .21E-05 | 0.00 | .18E-06 | 90.000 | .31E-05 | 90.000 | .571E+03 | 90.000 | 3462.225 | 0.000 | .00021 |
| 85. | 3463.516 | 0.000 | .21E-05 | 0.00 | .16E-06 | 90.000 | .31E-05 | 90.000 | .478E+03 | 90.000 | 3463.005 | 0.000 | .00015 |
| 86. | 3463.978 | 0.000 | .21E-05 | 0.00 | .12E-06 | 90.000 | .31E-05 | 90.000 | .383E+03 | 90.000 | 3463.648 | 0.000 | .00010 |
| 87. | 3464.339 | 0.000 | .21E-05 | 0.00 | .94E-07 | 90.000 | .31E-05 | 90.000 | .288E+03 | 90.000 | 3464.152 | 0.000 | .00005 |
| 88. | 3464.598 | 0.000 | .21E-05 | 0.00 | .62E-07 | 90.000 | .31E-05 | 90.000 | .192E+03 | 90.000 | 3464.515 | 0.000 | .00002 |
| 89. | 3464.754 | 0.000 | .21E-05 | 0.00 | .31E-07 | 90.000 | .31E-05 | 90.000 | .963E+02 | 90.000 | 3464.733 | 0.000 | .00001 |
| 90. | 3464.806 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | 0. | 0.000 | 3464.806 | 0.000 | 0.00000 |
| 91. | 3464.754 | 0.000 | .21E-05 | 0.00 | .31E-07 | -90.000 | .31E-05 | 90.000 | .963E+02 | -90.000 | 3464.733 | 0.000 | .00001 |
| 92. | 3464.598 | 0.000 | .21E-05 | 0.00 | .62E-07 | -90.000 | .31E-05 | 90.000 | .192E+03 | -90.000 | 3464.515 | 0.000 | .00002 |
| 93. | 3464.339 | 0.000 | .21E-05 | 0.00 | .94E-07 | -90.000 | .31E-05 | 90.000 | .288E+03 | -90.000 | 3464.152 | 0.000 | .00005 |
| 94. | 3463.978 | 0.000 | .21E-05 | 0.00 | .12E-06 | -90.000 | .31E-05 | 90.000 | .383E+03 | -90.000 | 3463.648 | 0.000 | .00010 |
| 95. | 3463.516 | 0.000 | .21E-05 | 0.00 | .16E-06 | -90.000 | .31E-05 | 90.000 | .478E+03 | -90.000 | 3463.005 | 0.000 | .00015 |
| 96. | 3462.954 | 0.000 | .21E-05 | 0.00 | .18E-06 | -90.000 | .31E-05 | 90.000 | .571E+03 | -90.000 | 3462.225 | 0.000 | .00021 |
| 97. | 3462.294 | 0.000 | .21E-05 | 0.00 | .21E-06 | -90.000 | .31E-05 | 90.000 | .664E+03 | -90.000 | 3461.315 | 0.000 | .00028 |
| 98. | 3461.538 | 0.000 | .21E-05 | 0.00 | .24E-06 | -90.000 | .31E-05 | 90.000 | .755E+03 | -90.000 | 3460.277 | 0.000 | .00036 |
| 99. | 3460.688 | 0.000 | .21E-05 | 0.00 | .27E-06 | -90.000 | .31E-05 | 90.000 | .845E+03 | -90.000 | 3459.118 | 0.000 | .00045 |

Y-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3459.747 | 0.000 | .21E-05 | 0.00 | .30E-06 | -90.000 | .31E-05 | 90.000 | .934E+03 | -90.000 | 3457.843 | 0.000 | .00055 |
| 101. | 3458.718 | 0.000 | .21E-05 | 0.00 | .33E-06 | -90.000 | .31E-05 | 90.000 | .102E+04 | -90.000 | 3456.457 | 0.000 | .00065 |
| 102. | 3457.604 | 0.000 | .21E-05 | 0.00 | .35E-06 | -90.000 | .31E-05 | 90.000 | .111E+04 | -90.000 | 3454.967 | 0.000 | .00076 |
| 103. | 3456.407 | 0.000 | .21E-05 | 0.00 | .38E-06 | -90.000 | .31E-05 | 90.000 | .119E+04 | -90.000 | 3453.379 | 0.000 | .00088 |
| 104. | 3455.130 | 0.000 | .21E-05 | 0.00 | .40E-06 | -90.000 | .31E-05 | 90.000 | .127E+04 | -90.000 | 3451.700 | 0.000 | .00099 |
| 105. | 3453.778 | 0.000 | .21E-05 | 0.00 | .43E-06 | -90.000 | .31E-05 | 90.000 | .135E+04 | -90.000 | 3449.934 | 0.000 | .00111 |
| 106. | 3452.352 | 0.000 | .21E-05 | 0.00 | .45E-06 | -90.000 | .31E-05 | 90.000 | .143E+04 | -90.000 | 3448.090 | 0.000 | .00123 |
| 107. | 3450.858 | 0.000 | .21E-05 | 0.00 | .47E-06 | -90.000 | .31E-05 | 90.000 | .151E+04 | -90.000 | 3446.172 | 0.000 | .00136 |
| 108. | 3449.298 | 0.000 | .21E-05 | 0.00 | .50E-06 | -90.000 | .31E-05 | 90.000 | .158E+04 | -90.000 | 3444.188 | 0.000 | .00148 |
| 109. | 3447.675 | 0.000 | .21E-05 | 0.00 | .52E-06 | -90.000 | .31E-05 | 90.000 | .165E+04 | -90.000 | 3442.142 | 0.000 | .00160 |
| 110. | 3445.993 | 0.000 | .21E-05 | 0.00 | .54E-06 | -90.000 | .31E-05 | 90.000 | .172E+04 | -90.000 | 3440.040 | 0.000 | .00173 |
| 111. | 3444.257 | 0.000 | .21E-05 | 0.00 | .55E-06 | -90.000 | .31E-05 | 90.000 | .179E+04 | -90.000 | 3437.889 | 0.000 | .00185 |
| 112. | 3442.468 | 0.000 | .21E-05 | 0.00 | .57E-06 | -90.000 | .31E-05 | 90.000 | .185E+04 | -90.000 | 3435.694 | 0.000 | .00197 |
| 113. | 3440.631 | 0.000 | .21E-05 | 0.00 | .59E-06 | -90.000 | .31E-05 | 90.000 | .192E+04 | -90.000 | 3433.459 | 0.000 | .00208 |
| 114. | 3438.749 | 0.000 | .21E-05 | 0.00 | .60E-06 | -90.000 | .32E-05 | 90.000 | .198E+04 | -90.000 | 3431.190 | 0.000 | .00220 |
| 115. | 3436.826 | 0.000 | .21E-05 | 0.00 | .62E-06 | -90.000 | .32E-05 | 90.000 | .204E+04 | -90.000 | 3428.892 | 0.000 | .00231 |
| 116. | 3434.864 | 0.000 | .21E-05 | 0.00 | .63E-06 | -90.000 | .32E-05 | 90.000 | .210E+04 | -90.000 | 3426.570 | 0.000 | .00241 |
| 117. | 3432.868 | 0.000 | .21E-05 | 0.00 | .65E-06 | -90.000 | .32E-05 | 90.000 | .215E+04 | -90.000 | 3424.228 | 0.000 | .00252 |
| 118. | 3430.841 | 0.000 | .21E-05 | 0.00 | .66E-06 | -90.000 | .32E-05 | 90.000 | .220E+04 | -90.000 | 3421.870 | 0.000 | .00261 |
| 119. | 3428.785 | 0.000 | .21E-05 | 0.00 | .67E-06 | -90.000 | .32E-05 | 90.000 | .225E+04 | -90.000 | 3419.501 | 0.000 | .00271 |
| 120. | 3426.704 | 0.000 | .21E-05 | 0.00 | .68E-06 | -90.000 | .32E-05 | 90.000 | .230E+04 | -90.000 | 3417.124 | 0.000 | .00280 |
| 121. | 3424.602 | 0.000 | .21E-05 | 0.00 | .69E-06 | -90.000 | .32E-05 | 90.000 | .235E+04 | -90.000 | 3414.744 | 0.000 | .00288 |
| 122. | 3422.481 | 0.000 | .21E-05 | 0.00 | .70E-06 | -90.000 | .32E-05 | 90.000 | .239E+04 | -90.000 | 3412.365 | 0.000 | .00296 |
| 123. | 3420.345 | 0.000 | .21E-05 | 0.00 | .71E-06 | -90.000 | .32E-05 | 90.000 | .244E+04 | -90.000 | 3409.990 | 0.000 | .00303 |
| 124. | 3418.196 | 0.000 | .21E-05 | 0.00 | .71E-06 | -90.000 | .32E-05 | 90.000 | .248E+04 | -90.000 | 3407.623 | 0.000 | .00309 |
| 125. | 3416.038 | 0.000 | .21E-05 | 0.00 | .72E-06 | -90.000 | .32E-05 | 90.000 | .252E+04 | -90.000 | 3405.267 | 0.000 | .00315 |
| 126. | 3413.874 | 0.000 | .21E-05 | 0.00 | .73E-06 | -90.000 | .32E-05 | 90.000 | .255E+04 | -90.000 | 3402.926 | 0.000 | .00321 |
| 127. | 3411.706 | 0.000 | .21E-05 | 0.00 | .73E-06 | -90.000 | .33E-05 | 90.000 | .259E+04 | -90.000 | 3400.602 | 0.000 | .00325 |
| 128. | 3409.538 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .262E+04 | -90.000 | 3398.300 | 0.000 | .00330 |
| 129. | 3407.372 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .265E+04 | -90.000 | 3396.021 | 0.000 | .00333 |
| 130. | 3405.211 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .268E+04 | -90.000 | 3393.769 | 0.000 | .00336 |
| 131. | 3403.058 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .270E+04 | -90.000 | 3391.547 | 0.000 | .00338 |
| 132. | 3400.916 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .273E+04 | -90.000 | 3389.358 | 0.000 | .00340 |
| 133. | 3398.787 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .275E+04 | -90.000 | 3387.204 | 0.000 | .00341 |
| 134. | 3396.674 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .277E+04 | -90.000 | 3385.087 | 0.000 | .00341 |
| 135. | 3394.580 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .33E-05 | 90.000 | .278E+04 | -90.000 | 3383.010 | 0.000 | .00341 |
| 136. | 3392.508 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .34E-05 | 90.000 | .280E+04 | -90.000 | 3380.976 | 0.000 | .00340 |
| 137. | 3390.459 | 0.000 | .21E-05 | 0.00 | .74E-06 | -90.000 | .34E-05 | 90.000 | .281E+04 | -90.000 | 3378.987 | 0.000 | .00338 |
| 138. | 3388.436 | 0.000 | .21E-05 | 0.00 | .73E-06 | -90.000 | .34E-05 | 90.000 | .282E+04 | -90.000 | 3377.044 | 0.000 | .00336 |
| 139. | 3386.442 | 0.000 | .21E-05 | 0.00 | .73E-06 | -90.000 | .34E-05 | 90.000 | .283E+04 | -90.000 | 3375.150 | 0.000 | .00333 |
| 140. | 3384.479 | 0.000 | .21E-05 | 0.00 | .72E-06 | -90.000 | .34E-05 | 90.000 | .283E+04 | -90.000 | 3373.307 | 0.000 | .00330 |
| 141. | 3382.550 | 0.000 | .21E-05 | 0.00 | .72E-06 | -90.000 | .34E-05 | 90.000 | .284E+04 | -90.000 | 3371.517 | 0.000 | .00326 |
| 142. | 3380.656 | 0.000 | .21E-05 | 0.00 | .71E-06 | -90.000 | .34E-05 | 90.000 | .284E+04 | -90.000 | 3369.780 | 0.000 | .00322 |
| 143. | 3378.801 | 0.000 | .21E-05 | 0.00 | .70E-06 | -90.000 | .34E-05 | 90.000 | .284E+04 | -90.000 | 3368.099 | 0.000 | .00317 |
| 144. | 3376.985 | 0.000 | .21E-05 | 0.00 | .69E-06 | -90.000 | .34E-05 | 90.000 | .283E+04 | -90.000 | 3366.475 | 0.000 | .00311 |
| 145. | 3375.212 | 0.000 | .21E-05 | 0.00 | .69E-06 | -90.000 | .35E-05 | 90.000 | .283E+04 | -90.000 | 3364.910 | 0.000 | .00305 |
| 146. | 3373.482 | 0.000 | .21E-05 | 0.00 | .67E-06 | -90.000 | .35E-05 | 90.000 | .282E+04 | -90.000 | 3363.404 | 0.000 | .00299 |
| 147. | 3371.799 | 0.000 | .21E-05 | 0.00 | .67E-06 | -90.000 | .35E-05 | 90.000 | .281E+04 | -90.000 | 3361.957 | 0.000 | .00292 |
| 148. | 3370.163 | 0.000 | .21E-05 | 0.00 | .65E-06 | -90.000 | .35E-05 | 90.000 | .279E+04 | -90.000 | 3360.572 | 0.000 | .00285 |
| 149. | 3368.577 | 0.000 | .22E-05 | 0.00 | .64E-06 | -90.000 | .35E-05 | 90.000 | .278E+04 | -90.000 | 3359.249 | 0.000 | .00277 |

Y-AXIS BOULE  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3367.041 | 0.000 | .22E-05 | 0.00 | .63E-06 | -90.000 | .35E-05 | 90.000 | .276E+04 | -90.000 | 3357.987 | 0.000 | .00269 |
| 151. | 3365.559 | 0.000 | .22E-05 | 0.00 | .62E-06 | -90.000 | .35E-05 | 90.000 | .273E+04 | -90.000 | 3356.788 | 0.000 | .00261 |
| 152. | 3364.130 | 0.000 | .22E-05 | 0.00 | .60E-06 | -90.000 | .35E-05 | 90.000 | .271E+04 | -90.000 | 3355.651 | 0.000 | .00252 |
| 153. | 3362.757 | 0.000 | .22E-05 | 0.00 | .59E-06 | -90.000 | .35E-05 | 90.000 | .268E+04 | -90.000 | 3354.575 | 0.000 | .00243 |
| 154. | 3361.439 | 0.000 | .22E-05 | 0.00 | .57E-06 | -90.000 | .36E-05 | 90.000 | .265E+04 | -90.000 | 3353.562 | 0.000 | .00234 |
| 155. | 3360.179 | 0.000 | .22E-05 | 0.00 | .56E-06 | -90.000 | .36E-05 | 90.000 | .262E+04 | -90.000 | 3352.610 | 0.000 | .00225 |
| 156. | 3358.977 | 0.000 | .22E-05 | 0.00 | .54E-06 | -90.000 | .36E-05 | 90.000 | .259E+04 | -90.000 | 3351.718 | 0.000 | .00216 |
| 157. | 3357.834 | 0.000 | .22E-05 | 0.00 | .52E-06 | -90.000 | .36E-05 | 90.000 | .255E+04 | -90.000 | 3350.885 | 0.000 | .00207 |
| 158. | 3356.749 | 0.000 | .22E-05 | 0.00 | .51E-06 | -90.000 | .36E-05 | 90.000 | .252E+04 | -90.000 | 3350.111 | 0.000 | .00198 |
| 159. | 3355.724 | 0.000 | .22E-05 | 0.00 | .49E-06 | -90.000 | .36E-05 | 90.000 | .248E+04 | -90.000 | 3349.394 | 0.000 | .00189 |
| 160. | 3354.759 | 0.000 | .22E-05 | 0.00 | .47E-06 | -90.000 | .36E-05 | 90.000 | .243E+04 | -90.000 | 3348.733 | 0.000 | .00180 |
| 161. | 3353.852 | 0.000 | .22E-05 | 0.00 | .45E-06 | -90.000 | .36E-05 | 90.000 | .239E+04 | -90.000 | 3348.125 | 0.000 | .00171 |
| 162. | 3353.005 | 0.000 | .22E-05 | 0.00 | .43E-06 | -90.000 | .36E-05 | 90.000 | .235E+04 | -90.000 | 3347.569 | 0.000 | .00162 |
| 163. | 3352.215 | 0.000 | .22E-05 | 0.00 | .41E-06 | -90.000 | .36E-05 | 90.000 | .230E+04 | -90.000 | 3347.063 | 0.000 | .00154 |
| 164. | 3351.484 | 0.000 | .22E-05 | 0.00 | .39E-06 | -90.000 | .36E-05 | 90.000 | .226E+04 | -90.000 | 3346.604 | 0.000 | .00146 |
| 165. | 3350.809 | 0.000 | .22E-05 | 0.00 | .37E-06 | -90.000 | .36E-05 | 90.000 | .221E+04 | -90.000 | 3346.191 | 0.000 | .00138 |
| 166. | 3350.189 | 0.000 | .22E-05 | 0.00 | .35E-06 | -90.000 | .37E-05 | 90.000 | .216E+04 | -90.000 | 3345.821 | 0.000 | .00130 |
| 167. | 3349.624 | 0.000 | .22E-05 | 0.00 | .32E-06 | -90.000 | .37E-05 | 90.000 | .212E+04 | -90.000 | 3345.492 | 0.000 | .00123 |
| 168. | 3349.111 | 0.000 | .22E-05 | 0.00 | .30E-06 | -90.000 | .37E-05 | 90.000 | .207E+04 | -90.000 | 3345.200 | 0.000 | .00117 |
| 169. | 3348.649 | 0.000 | .22E-05 | 0.00 | .28E-06 | -90.000 | .37E-05 | 90.000 | .203E+04 | -90.000 | 3344.944 | 0.000 | .00111 |
| 170. | 3348.236 | 0.000 | .22E-05 | 0.00 | .25E-06 | -90.000 | .37E-05 | 90.000 | .199E+04 | -90.000 | 3344.721 | 0.000 | .00105 |
| 171. | 3347.870 | 0.000 | .22E-05 | 0.00 | .23E-06 | -90.000 | .37E-05 | 90.000 | .195E+04 | -90.000 | 3344.527 | 0.000 | .00100 |
| 172. | 3347.549 | 0.000 | .22E-05 | 0.00 | .20E-06 | -90.000 | .37E-05 | 90.000 | .191E+04 | -90.000 | 3344.362 | 0.000 | .00095 |
| 173. | 3347.272 | 0.000 | .22E-05 | 0.00 | .18E-06 | -90.000 | .37E-05 | 90.000 | .188E+04 | -90.000 | 3344.223 | 0.000 | .00091 |
| 174. | 3347.036 | 0.000 | .22E-05 | 0.00 | .16E-06 | -90.000 | .37E-05 | 90.000 | .185E+04 | -90.000 | 3344.106 | 0.000 | .00088 |
| 175. | 3346.840 | 0.000 | .22E-05 | 0.00 | .13E-06 | -90.000 | .37E-05 | 90.000 | .182E+04 | -90.000 | 3344.012 | 0.000 | .00084 |
| 176. | 3346.682 | 0.000 | .22E-05 | 0.00 | .10E-06 | -90.000 | .37E-05 | 90.000 | .180E+04 | -90.000 | 3343.937 | 0.000 | .00082 |
| 177. | 3346.560 | 0.000 | .22E-05 | 0.00 | .78E-07 | -90.000 | .37E-05 | 90.000 | .178E+04 | -90.000 | 3343.880 | 0.000 | .00080 |
| 178. | 3346.474 | 0.000 | .22E-05 | 0.00 | .52E-07 | -90.000 | .37E-05 | 90.000 | .177E+04 | -90.000 | 3343.840 | 0.000 | .00079 |
| 179. | 3346.423 | 0.000 | .22E-05 | 0.00 | .26E-07 | -90.000 | .37E-05 | 90.000 | .176E+04 | -90.000 | 3343.817 | 0.000 | .00078 |
| 180. | 3346.406 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .176E+04 | -90.000 | 3343.809 | 0.000 | .00078 |

Z-AXIS BOULE BARIUM SODIUM NIOBATE

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3176.856 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | .137E+04 | 180.000 | 3175.202 | 0.000 | .00052 |
| 1. | 3176.868 | 0.000 | .28E-05 | 0.00 | .32E-08 | 90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.215 | 0.000 | .00052 |
| 2. | 3176.902 | 0.000 | .28E-05 | 0.00 | .64E-08 | 90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.251 | 0.000 | .00052 |
| 3. | 3176.958 | 0.000 | .28E-05 | 0.00 | .96E-08 | 90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.311 | 0.000 | .00052 |
| 4. | 3177.037 | 0.000 | .28E-05 | 0.00 | .13E-07 | 90.000 | .31E-05 | 90.000 | .136E+04 | -180.000 | 3175.394 | 0.000 | .00052 |
| 5. | 3177.138 | 0.000 | .28E-05 | 0.00 | .16E-07 | 90.000 | .31E-05 | 90.000 | .136E+04 | 180.000 | 3175.502 | 0.000 | .00051 |
| 6. | 3177.261 | 0.000 | .28E-05 | 0.00 | .19E-07 | 90.000 | .31E-05 | 90.000 | .136E+04 | -180.000 | 3175.632 | 0.000 | .00051 |
| 7. | 3177.405 | 0.000 | .28E-05 | 0.00 | .22E-07 | 90.000 | .31E-05 | 90.000 | .135E+04 | -180.000 | 3175.785 | 0.000 | .00051 |
| 8. | 3177.569 | 0.000 | .28E-05 | 0.00 | .25E-07 | 90.000 | .31E-05 | 90.000 | .135E+04 | -180.000 | 3175.960 | 0.000 | .00051 |
| 9. | 3177.755 | 0.000 | .28E-05 | 0.00 | .28E-07 | 90.000 | .31E-05 | 90.000 | .134E+04 | -180.000 | 3176.157 | 0.000 | .00050 |
| 10. | 3177.960 | 0.000 | .28E-05 | 0.00 | .31E-07 | 90.000 | .31E-05 | 90.000 | .134E+04 | -180.000 | 3176.375 | 0.000 | .00050 |
| 11. | 3178.183 | 0.000 | .28E-05 | 0.00 | .33E-07 | 90.000 | .31E-05 | 90.000 | .133E+04 | 180.000 | 3176.613 | 0.000 | .00049 |
| 12. | 3178.426 | 0.000 | .28E-05 | 0.00 | .36E-07 | 90.000 | .31E-05 | 90.000 | .133E+04 | 180.000 | 3176.871 | 0.000 | .00049 |
| 13. | 3178.685 | 0.000 | .28E-05 | 0.00 | .36E-07 | 90.000 | .31E-05 | 90.000 | .132E+04 | 180.000 | 3177.148 | 0.000 | .00048 |
| 14. | 3178.962 | 0.000 | .28E-05 | 0.00 | .41E-07 | 90.000 | .31E-05 | 90.000 | .131E+04 | 180.000 | 3177.442 | 0.000 | .00048 |
| 15. | 3179.254 | 0.000 | .28E-05 | 0.00 | .43E-07 | 90.000 | .31E-05 | 90.000 | .130E+04 | 180.000 | 3177.753 | 0.000 | .00047 |
| 16. | 3179.561 | 0.000 | .28E-05 | 0.00 | .45E-07 | 90.000 | .31E-05 | 90.000 | .130E+04 | -180.000 | 3178.080 | 0.000 | .00047 |
| 17. | 3179.882 | 0.000 | .28E-05 | 0.00 | .47E-07 | 90.000 | .31E-05 | 90.000 | .129E+04 | 180.000 | 3178.421 | 0.000 | .00046 |
| 18. | 3180.215 | 0.000 | .28E-05 | 0.00 | .49E-07 | 90.000 | .31E-05 | 90.000 | .128E+04 | 180.000 | 3178.777 | 0.000 | .00045 |
| 19. | 3180.560 | 0.000 | .28E-05 | 0.00 | .51E-07 | 90.000 | .31E-05 | 90.000 | .127E+04 | -180.000 | 3179.144 | 0.000 | .00045 |
| 20. | 3180.916 | 0.000 | .28E-05 | 0.00 | .52E-07 | 90.000 | .31E-05 | 90.000 | .126E+04 | -180.000 | 3179.524 | 0.000 | .00044 |
| 21. | 3181.281 | 0.000 | .28E-05 | 0.00 | .54E-07 | 90.000 | .31E-05 | 90.000 | .125E+04 | -180.000 | 3179.913 | 0.000 | .00043 |
| 22. | 3181.654 | 0.000 | .28E-05 | 0.00 | .55E-07 | 90.000 | .31E-05 | 90.000 | .123E+04 | -180.000 | 3180.311 | 0.000 | .00042 |
| 23. | 3182.034 | 0.000 | .28E-05 | 0.00 | .56E-07 | 90.000 | .31E-05 | 90.000 | .122E+04 | 180.000 | 3180.717 | 0.000 | .00041 |
| 24. | 3182.419 | 0.000 | .28E-05 | 0.00 | .57E-07 | 90.000 | .31E-05 | 90.000 | .121E+04 | 180.000 | 3181.129 | 0.000 | .00041 |
| 25. | 3182.809 | 0.000 | .28E-05 | 0.00 | .58E-07 | 90.000 | .31E-05 | 90.000 | .120E+04 | 180.000 | 3181.546 | 0.000 | .00040 |
| 26. | 3183.203 | 0.000 | .28E-05 | 0.00 | .58E-07 | 90.000 | .31E-05 | 90.000 | .118E+04 | 180.000 | 3181.966 | 0.000 | .00039 |
| 27. | 3183.598 | 0.000 | .28E-05 | 0.00 | .59E-07 | 90.000 | .31E-05 | 90.000 | .117E+04 | 180.000 | 3182.389 | 0.000 | .00038 |
| 28. | 3183.994 | 0.000 | .28E-05 | 0.00 | .59E-07 | 90.000 | .31E-05 | 90.000 | .116E+04 | -180.000 | 3182.813 | 0.000 | .00037 |
| 29. | 3184.389 | 0.000 | .28E-05 | 0.00 | .60E-07 | 90.000 | .31E-05 | 90.000 | .114E+04 | 180.000 | 3183.237 | 0.000 | .00036 |
| 30. | 3184.782 | 0.000 | .28E-05 | 0.00 | .60E-07 | 90.000 | .31E-05 | 90.000 | .113E+04 | -180.000 | 3183.659 | 0.000 | .00035 |
| 31. | 3185.172 | 0.000 | .28E-05 | 0.00 | .59E-07 | 90.000 | .31E-05 | 90.000 | .112E+04 | -180.000 | 3184.078 | 0.000 | .00034 |
| 32. | 3185.558 | 0.000 | .28E-05 | 0.00 | .59E-07 | 90.000 | .31E-05 | 90.000 | .110E+04 | -180.000 | 3184.493 | 0.000 | .00033 |
| 33. | 3185.939 | 0.000 | .28E-05 | 0.00 | .59E-07 | 90.000 | .31E-05 | 90.000 | .109E+04 | -180.000 | 3184.903 | 0.000 | .00033 |
| 34. | 3186.313 | 0.000 | .28E-05 | 0.00 | .58E-07 | 90.000 | .31E-05 | 90.000 | .107E+04 | -180.000 | 3185.306 | 0.000 | .00032 |
| 35. | 3186.679 | 0.000 | .28E-05 | 0.00 | .57E-07 | 90.000 | .31E-05 | 90.000 | .106E+04 | 180.000 | 3185.701 | 0.000 | .00031 |
| 36. | 3187.037 | 0.000 | .28E-05 | 0.00 | .56E-07 | 90.000 | .31E-05 | 90.000 | .104E+04 | -180.000 | 3186.087 | 0.000 | .00030 |
| 37. | 3187.384 | 0.000 | .28E-05 | 0.00 | .55E-07 | 90.000 | .31E-05 | 90.000 | .102E+04 | -180.000 | 3166.463 | 0.000 | .00029 |
| 38. | 3187.721 | 0.000 | .28E-05 | 0.00 | .54E-07 | 90.000 | .31E-05 | 90.000 | .101E+04 | -180.000 | 3186.828 | 0.000 | .00028 |
| 39. | 3188.047 | 0.000 | .28E-05 | 0.00 | .53E-07 | 90.000 | .31E-05 | 90.000 | .993E+03 | 180.000 | 3187.182 | 0.000 | .00027 |
| 40. | 3188.359 | 0.000 | .28E-05 | 0.00 | .52E-07 | 90.000 | .31E-05 | 90.000 | .978E+03 | -180.000 | 3187.522 | 0.000 | .00026 |
| 41. | 3188.659 | 0.000 | .28E-05 | 0.00 | .50E-07 | 90.000 | .31E-05 | 90.000 | .962E+03 | -180.000 | 3187.849 | 0.000 | .00025 |
| 42. | 3188.944 | 0.000 | .28E-05 | 0.00 | .48E-07 | 90.000 | .31E-05 | 90.000 | .946E+03 | 180.000 | 3188.162 | 0.000 | .00025 |
| 43. | 3189.215 | 0.000 | .28E-05 | 0.00 | .47E-07 | 90.000 | .31E-05 | 90.000 | .930E+03 | -180.000 | 3188.459 | 0.000 | .00024 |
| 44. | 3189.471 | 0.000 | .28E-05 | 0.00 | .45E-07 | 90.000 | .31E-05 | 90.000 | .914E+03 | -180.000 | 3188.741 | 0.000 | .00023 |
| 45. | 3189.711 | 0.000 | .28E-05 | 0.00 | .43E-07 | 90.000 | .31E-05 | 90.000 | .898E+03 | -180.000 | 3189.006 | 0.000 | .00022 |
| 46. | 3189.935 | 0.000 | .28E-05 | 0.00 | .41E-07 | 90.000 | .31E-05 | 90.000 | .882E+03 | -180.000 | 3189.255 | 0.000 | .00021 |
| 47. | 3190.142 | 0.000 | .28E-05 | 0.00 | .39E-07 | 90.000 | .31E-05 | 90.000 | .867E+03 | -180.000 | 3189.486 | 0.000 | .00021 |
| 48. | 3190.333 | 0.000 | .28E-05 | 0.00 | .37E-07 | 90.000 | .31E-05 | 90.000 | .851E+03 | -180.000 | 3189.701 | 0.000 | .00020 |
| 49. | 3190.507 | 0.000 | .28E-05 | 0.00 | .35E-07 | 90.000 | .31E-05 | 90.000 | .836E+03 | 180.000 | 3189.898 | 0.000 | .00019 |

Z-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3190.664 | 0.000 | .28E-05 | 0.00 | .33E-07 | 90.000 | .31E-05 | 90.000 | .820E+03 | -180.000 | 3190.077 | 0.000 | .00018 |
| 51. | 3190.804 | 0.000 | .28E-05 | 0.00 | .31E-07 | 90.000 | .31E-05 | 90.000 | .805E+03 | -180.000 | 3190.239 | 0.000 | .00018 |
| 52. | 3190.927 | 0.000 | .28E-05 | 0.00 | .29E-07 | 90.000 | .31E-05 | 90.000 | .790E+03 | -180.000 | 3190.383 | 0.000 | .00017 |
| 53. | 3191.034 | 0.000 | .28E-05 | 0.00 | .27E-07 | 90.000 | .31E-05 | 90.000 | .776E+03 | -180.000 | 3190.510 | 0.000 | .00016 |
| 54. | 3191.124 | 0.000 | .28E-05 | 0.00 | .25E-07 | 90.000 | .31E-05 | 90.000 | .761E+03 | -180.000 | 3190.620 | 0.000 | .00016 |
| 55. | 3191.199 | 0.000 | .28E-05 | 0.00 | .23E-07 | 90.000 | .31E-05 | 90.000 | .747E+03 | 180.000 | 3190.713 | 0.000 | .00015 |
| 56. | 3191.257 | 0.000 | .28E-05 | 0.00 | .21E-07 | 90.000 | .31E-05 | 90.000 | .733E+03 | -180.000 | 3190.790 | 0.000 | .00015 |
| 57. | 3191.301 | 0.000 | .28E-05 | 0.00 | .19E-07 | 90.000 | .31E-05 | 90.000 | .719E+03 | -180.000 | 3190.851 | 0.000 | .00014 |
| 58. | 3191.329 | 0.000 | .28E-05 | 0.00 | .17E-07 | 90.000 | .31E-05 | 90.000 | .706E+03 | -180.000 | 3190.897 | 0.000 | .00014 |
| 59. | 3191.344 | 0.000 | .28E-05 | 0.00 | .15E-07 | 90.000 | .31E-05 | 90.000 | .693E+03 | -180.000 | 3190.927 | 0.000 | .00013 |
| 60. | 3191.346 | 0.000 | .28E-05 | 0.00 | .13E-07 | 90.000 | .31E-05 | 90.000 | .680E+03 | -180.000 | 3190.944 | 0.000 | .00013 |
| 61. | 3191.334 | 0.000 | .28E-05 | 0.00 | .12E-07 | 90.000 | .31E-05 | 90.000 | .668E+03 | -180.000 | 3190.947 | 0.000 | .00012 |
| 62. | 3191.311 | 0.000 | .28E-05 | 0.00 | .10E-07 | 90.000 | .31E-05 | 90.000 | .656E+03 | -180.000 | 3190.936 | 0.000 | .00012 |
| 63. | 3191.277 | 0.000 | .28E-05 | 0.00 | .85E-08 | 90.000 | .31E-05 | 90.000 | .644E+03 | 180.000 | 3190.917 | 0.000 | .00011 |
| 64. | 3191.233 | 0.000 | .28E-05 | 0.00 | .70E-08 | 90.000 | .31E-05 | 90.000 | .633E+03 | -180.000 | 3190.886 | 0.000 | .00011 |
| 65. | 3191.179 | 0.000 | .28E-05 | 0.00 | .56E-08 | 90.000 | .32E-05 | 90.000 | .622E+03 | -180.000 | 3190.844 | 0.000 | .00010 |
| 66. | 3191.117 | 0.000 | .28E-05 | 0.00 | .43E-08 | 90.000 | .32E-05 | 90.000 | .612E+03 | -180.000 | 3190.794 | 0.000 | .00010 |
| 67. | 3191.048 | 0.000 | .28E-05 | 0.00 | .31E-08 | 90.000 | .32E-05 | 90.000 | .601E+03 | -180.000 | 3190.735 | 0.000 | .00010 |
| 68. | 3190.972 | 0.000 | .28E-05 | 0.00 | .20E-08 | 90.000 | .32E-05 | 90.000 | .592E+03 | -180.000 | 3190.669 | 0.000 | .00009 |
| 69. | 3190.891 | 0.000 | .28E-05 | 0.00 | .96E-09 | 90.000 | .32E-05 | 90.000 | .582E+03 | -180.000 | 3190.598 | 0.000 | .00009 |
| 70. | 3190.805 | 0.000 | .28E-05 | 0.00 | .56E-10 | 90.000 | .32E-05 | 90.000 | .574E+03 | -180.000 | 3190.521 | 0.000 | .00009 |
| 71. | 3190.716 | 0.000 | .28E-05 | 0.00 | .74E-09 | -90.000 | .32E-05 | 90.000 | .565E+03 | -180.000 | 3190.440 | 0.000 | .00009 |
| 72. | 3190.624 | 0.000 | .28E-05 | 0.00 | .14E-08 | -90.000 | .32E-05 | 90.000 | .557E+03 | -180.000 | 3190.357 | 0.000 | .00008 |
| 73. | 3190.531 | 0.000 | .28E-05 | 0.00 | .20E-08 | -90.000 | .32E-05 | 90.000 | .549E+03 | -180.000 | 3190.271 | 0.000 | .00008 |
| 74. | 3190.438 | 0.000 | .28E-05 | 0.00 | .25E-08 | -90.000 | .32E-05 | 90.000 | .542E+03 | -180.000 | 3190.184 | 0.000 | .00008 |
| 75. | 3190.345 | 0.000 | .28E-05 | 0.00 | .29E-08 | -90.000 | .32E-05 | 90.000 | .535E+03 | -180.000 | 3190.098 | 0.000 | .00008 |
| 76. | 3190.253 | 0.000 | .28E-05 | 0.00 | .32E-08 | -90.000 | .32E-05 | 90.000 | .529E+03 | 180.000 | 3190.012 | 0.000 | .00008 |
| 77. | 3190.163 | 0.000 | .28E-05 | 0.00 | .34E-08 | -90.000 | .32E-05 | 90.000 | .523E+03 | -180.000 | 3189.927 | 0.000 | .00007 |
| 78. | 3190.076 | 0.000 | .28E-05 | 0.00 | .35E-08 | -90.000 | .32E-05 | 90.000 | .518E+03 | -180.000 | 3189.846 | 0.000 | .00007 |
| 79. | 3189.993 | 0.000 | .28E-05 | 0.00 | .35E-08 | -90.000 | .32E-05 | 90.000 | .513E+03 | -180.000 | 3189.767 | 0.000 | .00007 |
| 80. | 3189.915 | 0.000 | .28E-05 | 0.00 | .35E-08 | -90.000 | .32E-05 | 90.000 | .508E+03 | 180.000 | 3189.693 | 0.000 | .00007 |
| 81. | 3189.842 | 0.000 | .28E-05 | 0.00 | .34E-08 | -90.000 | .32E-05 | 90.000 | .504E+03 | -180.000 | 3189.624 | 0.000 | .00007 |
| 82. | 3189.775 | 0.000 | .28E-05 | 0.00 | .32E-08 | -90.000 | .32E-05 | 90.000 | .500E+03 | 180.000 | 3189.560 | 0.000 | .00007 |
| 83. | 3189.714 | 0.000 | .28E-05 | 0.00 | .29E-08 | -90.000 | .32E-05 | 90.000 | .497E+03 | -180.000 | 3189.502 | 0.000 | .00007 |
| 84. | 3189.661 | 0.000 | .28E-05 | 0.00 | .26E-08 | -90.000 | .32E-05 | 90.000 | .494E+03 | -180.000 | 3189.451 | 0.000 | .00007 |
| 85. | 3189.614 | 0.000 | .28E-05 | 0.00 | .22E-08 | -90.000 | .32E-05 | 90.000 | .492E+03 | -180.000 | 3189.406 | 0.000 | .00007 |
| 86. | 3189.576 | 0.000 | .28E-05 | 0.00 | .18E-08 | -90.000 | .32E-05 | 90.000 | .490E+03 | -180.000 | 3189.370 | 0.000 | .00006 |
| 87. | 3189.546 | 0.000 | .28E-05 | 0.00 | .14E-08 | -90.000 | .32E-05 | 90.000 | .488E+03 | -180.000 | 3189.341 | 0.000 | .00006 |
| 88. | 3189.524 | 0.000 | .28E-05 | 0.00 | .95E-09 | -90.000 | .32E-05 | 90.000 | .487E+03 | -180.000 | 3189.320 | 0.000 | .00006 |
| 89. | 3189.511 | 0.000 | .28E-05 | 0.00 | .48E-09 | -90.000 | .32E-05 | 90.000 | .486E+03 | -180.000 | 3189.308 | 0.000 | .00006 |
| 90. | 3189.507 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 90.000 | .486E+03 | -180.000 | 3189.303 | 0.000 | .00006 |
| 91. | 3189.511 | 0.000 | .28E-05 | 0.00 | .48E-09 | 90.000 | .32E-05 | 90.000 | .486E+03 | -180.000 | 3189.308 | 0.000 | .00006 |
| 92. | 3189.524 | 0.000 | .28E-05 | 0.00 | .95E-09 | 90.000 | .32E-05 | 90.000 | .487E+03 | -180.000 | 3189.320 | 0.000 | .00006 |
| 93. | 3189.546 | 0.000 | .28E-05 | 0.00 | .14E-08 | 90.000 | .32E-05 | 90.000 | .488E+03 | -180.000 | 3189.341 | 0.000 | .00006 |
| 94. | 3189.576 | 0.000 | .28E-05 | 0.00 | .18E-08 | 90.000 | .32E-05 | 90.000 | .490E+03 | -180.000 | 3189.370 | 0.000 | .00006 |
| 95. | 3189.614 | 0.000 | .28E-05 | 0.00 | .22E-08 | 90.000 | .32E-05 | 90.000 | .492E+03 | 180.000 | 3189.406 | 0.000 | .00007 |
| 96. | 3189.661 | 0.000 | .28E-05 | 0.00 | .26E-08 | 90.000 | .32E-05 | 90.000 | .494E+03 | -180.000 | 3189.451 | 0.000 | .00007 |
| 97. | 3189.714 | 0.000 | .28E-05 | 0.00 | .29E-08 | 90.000 | .32E-05 | 90.000 | .497E+03 | -180.000 | 3189.502 | 0.000 | .00007 |
| 98. | 3189.775 | 0.000 | .28E-05 | 0.00 | .32E-08 | 90.000 | .32E-05 | 90.000 | .500E+03 | -180.000 | 3189.560 | 0.000 | .00007 |
| 99. | 3189.842 | 0.000 | .28E-05 | 0.00 | .34E-08 | 90.000 | .32E-05 | 90.000 | .504E+03 | -180.000 | 3189.624 | 0.000 | .00007 |

Z-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3189.915 | 0.000 | .28E-05 | 0.00 | .35E-08 | 90.000 | .32E-05 | 90.000 | .508E+03 | -180.000 | 3189.693 | 0.000 | .00007 |
| 101. | 3189.993 | 0.000 | .28E-05 | 0.00 | .35E-08 | 90.000 | .32E-05 | 90.000 | .513E+03 | -180.000 | 3189.767 | 0.000 | .00007 |
| 102. | 3190.076 | 0.000 | .28E-05 | 0.00 | .35E-08 | 90.000 | .32E-05 | 90.000 | .518E+03 | -180.000 | 3189.846 | 0.000 | .00007 |
| 103. | 3190.163 | 0.000 | .28E-05 | 0.00 | .34E-08 | 90.000 | .32E-05 | 90.000 | .523E+03 | -180.000 | 3189.927 | 0.000 | .00007 |
| 104. | 3190.253 | 0.000 | .28E-05 | 0.00 | .32E-08 | 90.000 | .32E-05 | 90.000 | .529E+03 | -180.000 | 3190.012 | 0.000 | .00008 |
| 105. | 3190.345 | 0.000 | .28E-05 | 0.00 | .29E-08 | 90.000 | .32E-05 | 90.000 | .535E+03 | -180.000 | 3190.098 | 0.000 | .00008 |
| 106. | 3190.438 | 0.000 | .28E-05 | 0.00 | .25E-08 | 90.000 | .32E-05 | 90.000 | .542E+03 | -180.000 | 3190.184 | 0.000 | .00008 |
| 107. | 3190.531 | 0.000 | .28E-05 | 0.00 | .20E-08 | 90.000 | .32E-05 | 90.000 | .549E+03 | 180.000 | 3190.271 | 0.000 | .00008 |
| 108. | 3190.624 | 0.000 | .28E-05 | 0.00 | .14E-08 | 90.000 | .32E-05 | 90.000 | .557E+03 | -180.000 | 3190.357 | 0.000 | .00008 |
| 109. | 3190.716 | 0.000 | .28E-05 | 0.00 | .74E-09 | 90.000 | .32E-05 | 90.000 | .565E+03 | -180.000 | 3190.440 | 0.000 | .00009 |
| 110. | 3190.805 | 0.000 | .28E-05 | 0.00 | .56E-10 | -90.000 | .32E-05 | 90.000 | .574E+03 | -180.000 | 3190.521 | 0.000 | .00009 |
| 111. | 3190.891 | 0.000 | .28E-05 | 0.00 | .96E-09 | -90.000 | .32E-05 | 90.000 | .582E+03 | -180.000 | 3190.598 | 0.000 | .00009 |
| 112. | 3190.972 | 0.000 | .28E-05 | 0.00 | .20E-08 | -90.000 | .32E-05 | 90.000 | .592E+03 | -180.000 | 3190.669 | 0.000 | .00009 |
| 113. | 3191.048 | 0.000 | .28E-05 | 0.00 | .31E-08 | -90.000 | .32E-05 | 90.000 | .601E+03 | -180.000 | 3190.735 | 0.000 | .00010 |
| 114. | 3191.117 | 0.000 | .28E-05 | 0.00 | .43E-08 | -90.000 | .32E-05 | 90.000 | .612E+03 | -180.000 | 3190.794 | 0.000 | .00010 |
| 115. | 3191.179 | 0.000 | .28E-05 | 0.00 | .56E-08 | -90.000 | .32E-05 | 90.000 | .622E+03 | -180.000 | 3190.844 | 0.000 | .00010 |
| 116. | 3191.233 | 0.000 | .28E-05 | 0.00 | .70E-08 | -90.000 | .31E-05 | 90.000 | .633E+03 | -180.000 | 3190.886 | 0.000 | .00011 |
| 117. | 3191.277 | 0.000 | .28E-05 | 0.00 | .85E-08 | -90.000 | .31E-05 | 90.000 | .644E+03 | -180.000 | 3190.917 | 0.000 | .00011 |
| 118. | 3191.311 | 0.000 | .28E-05 | 0.00 | .10E-07 | -90.000 | .31E-05 | 90.000 | .656E+03 | -180.000 | 3190.938 | 0.000 | .00012 |
| 119. | 3191.334 | 0.000 | .28E-05 | 0.00 | .12E-07 | -90.000 | .31E-05 | 90.000 | .668E+03 | 180.000 | 3190.947 | 0.000 | .00012 |
| 120. | 3191.346 | 0.000 | .28E-05 | 0.00 | .13E-07 | -90.000 | .31E-05 | 90.000 | .680E+03 | -180.000 | 3190.944 | 0.000 | .00013 |
| 121. | 3191.344 | 0.000 | .28E-05 | 0.00 | .15E-07 | -90.000 | .31E-05 | 90.000 | .693E+03 | -180.000 | 3190.927 | 0.000 | .00013 |
| 122. | 3191.329 | 0.000 | .28E-05 | 0.00 | .17E-07 | -90.000 | .31E-05 | 90.000 | .706E+03 | 180.000 | 3190.897 | 0.000 | .00014 |
| 123. | 3191.301 | 0.000 | .28E-05 | 0.00 | .19E-07 | -90.000 | .31E-05 | 90.000 | .719E+03 | 180.000 | 3190.851 | 0.000 | .00014 |
| 124. | 3191.257 | 0.000 | .28E-05 | 0.00 | .21E-07 | -90.000 | .31E-05 | 90.000 | .733E+03 | -180.000 | 3190.790 | 0.000 | .00015 |
| 125. | 3191.199 | 0.000 | .28E-05 | 0.00 | .23E-07 | -90.000 | .31E-05 | 90.000 | .747E+03 | -180.000 | 3190.713 | 0.000 | .00015 |
| 126. | 3191.124 | 0.000 | .28E-05 | 0.00 | .25E-07 | -90.000 | .31E-05 | 90.000 | .761E+03 | 180.000 | 3190.620 | 0.000 | .00016 |
| 127. | 3191.034 | 0.000 | .28E-05 | 0.00 | .27E-07 | -90.000 | .31E-05 | 90.000 | .776E+03 | -180.000 | 3190.510 | 0.000 | .00016 |
| 128. | 3190.927 | 0.000 | .28E-05 | 0.00 | .29E-07 | -90.000 | .31E-05 | 90.000 | .790E+03 | -180.000 | 3190.383 | 0.000 | .00017 |
| 129. | 3190.804 | 0.000 | .28E-05 | 0.00 | .31E-07 | -90.000 | .31E-05 | 90.000 | .805E+03 | -180.000 | 3190.239 | 0.000 | .00018 |
| 130. | 3190.664 | 0.000 | .28E-05 | 0.00 | .33E-07 | -90.000 | .31E-05 | 90.000 | .820E+03 | -180.000 | 3190.077 | 0.000 | .00018 |
| 131. | 3190.507 | 0.000 | .28E-05 | 0.00 | .35E-07 | -90.000 | .31E-05 | 90.000 | .836E+03 | -180.000 | 3189.898 | 0.000 | .00019 |
| 132. | 3190.333 | 0.000 | .28E-05 | 0.00 | .37E-07 | -90.000 | .31E-05 | 90.000 | .851E+03 | -180.000 | 3189.701 | 0.000 | .00020 |
| 133. | 3190.142 | 0.000 | .28E-05 | 0.00 | .39E-07 | -90.000 | .31E-05 | 90.000 | .867E+03 | -180.000 | 3189.486 | 0.000 | .00021 |
| 134. | 3189.935 | 0.000 | .28E-05 | 0.00 | .41E-07 | -90.000 | .31E-05 | 90.000 | .882E+03 | -180.000 | 3189.255 | 0.000 | .00021 |
| 135. | 3189.711 | 0.000 | .28E-05 | 0.00 | .43E-07 | -90.000 | .31E-05 | 90.000 | .898E+03 | -180.000 | 3189.006 | 0.000 | .00022 |
| 136. | 3189.471 | 0.000 | .28E-05 | 0.00 | .45E-07 | -90.000 | .31E-05 | 90.000 | .914E+03 | 180.000 | 3188.741 | 0.000 | .00023 |
| 137. | 3189.215 | 0.000 | .28E-05 | 0.00 | .47E-07 | -90.000 | .31E-05 | 90.000 | .930E+03 | -180.000 | 3188.459 | 0.000 | .00024 |
| 138. | 3188.944 | 0.000 | .28E-05 | 0.00 | .48E-07 | -90.000 | .31E-05 | 90.000 | .946E+03 | -180.000 | 3188.162 | 0.000 | .00025 |
| 139. | 3188.659 | 0.000 | .28E-05 | 0.00 | .50E-07 | -90.000 | .31E-05 | 90.000 | .962E+03 | 180.000 | 3187.849 | 0.000 | .00025 |
| 140. | 3188.359 | 0.000 | .28E-05 | 0.00 | .52E-07 | -90.000 | .31E-05 | 90.000 | .978E+03 | -180.000 | 3187.522 | 0.000 | .00026 |
| 141. | 3188.047 | 0.000 | .28E-05 | 0.00 | .53E-07 | -90.000 | .31E-05 | 90.000 | .993E+03 | 180.000 | 3187.182 | 0.000 | .00027 |
| 142. | 3187.721 | 0.000 | .28E-05 | 0.00 | .54E-07 | -90.000 | .31E-05 | 90.000 | .101E+04 | -180.000 | 3186.828 | 0.000 | .00028 |
| 143. | 3187.384 | 0.000 | .28E-05 | 0.00 | .55E-07 | -90.000 | .31E-05 | 90.000 | .102E+04 | -180.000 | 3186.463 | 0.000 | .00029 |
| 144. | 3187.037 | 0.000 | .28E-05 | 0.00 | .56E-07 | -90.000 | .31E-05 | 90.000 | .104E+04 | -180.000 | 3186.087 | 0.000 | .00030 |
| 145. | 3186.679 | 0.000 | .28E-05 | 0.00 | .57E-07 | -90.000 | .31E-05 | 90.000 | .106E+04 | -180.000 | 3185.701 | 0.000 | .00031 |
| 146. | 3186.313 | 0.000 | .28E-05 | 0.00 | .58E-07 | -90.000 | .31E-05 | 90.000 | .107E+04 | -180.000 | 3185.306 | 0.000 | .00032 |
| 147. | 3185.939 | 0.000 | .28E-05 | 0.00 | .59E-07 | -90.000 | .31E-05 | 90.000 | .109E+04 | -180.000 | 3184.903 | 0.000 | .00033 |
| 148. | 3185.558 | 0.000 | .28E-05 | 0.00 | .59E-07 | -90.000 | .31E-05 | 90.000 | .110E+04 | 180.000 | 3184.493 | 0.000 | .00033 |
| 149. | 3185.172 | 0.000 | .28E-05 | 0.00 | .59E-07 | -90.000 | .31E-05 | 90.000 | .112E+04 | -180.000 | 3184.078 | 0.000 | .00034 |

Z-AXIS BOULE BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3184.782 | 0.000 | .28E-05 | 0.00 | .60E-07 | -90.000 | .31E-05 | 90.000 | .113E+04 | -180.000 | 3183.659 | 0.000 | .00035 |
| 151. | 3184.389 | 0.000 | .28E-05 | 0.00 | .60E-07 | -90.000 | .31E-05 | 90.000 | .114E+04 | -180.000 | 3183.237 | 0.000 | .00036 |
| 152. | 3183.994 | 0.000 | .28E-05 | 0.00 | .59E-07 | -90.000 | .31E-05 | 90.000 | .116E+04 | -180.000 | 3182.813 | 0.000 | .00037 |
| 153. | 3183.598 | 0.000 | .28E-05 | 0.00 | .59E-07 | -90.000 | .31E-05 | 90.000 | .117E+04 | -180.000 | 3182.389 | 0.000 | .00038 |
| 154. | 3183.203 | 0.000 | .28E-05 | 0.00 | .58E-07 | -90.000 | .31E-05 | 90.000 | .118E+04 | -180.000 | 3181.966 | 0.000 | .00039 |
| 155. | 3182.809 | 0.000 | .28E-05 | 0.00 | .58E-07 | -90.000 | .31E-05 | 90.000 | .120E+04 | -180.000 | 3181.546 | 0.000 | .00040 |
| 156. | 3182.419 | 0.000 | .28E-05 | 0.00 | .57E-07 | -90.000 | .31E-05 | 90.000 | .121E+04 | -180.000 | 3181.129 | 0.000 | .00041 |
| 157. | 3182.034 | 0.000 | .28E-05 | 0.00 | .56E-07 | -90.000 | .31E-05 | 90.000 | .122E+04 | -180.000 | 3180.717 | 0.000 | .00041 |
| 158. | 3181.654 | 0.000 | .28E-05 | 0.00 | .55E-07 | -90.000 | .31E-05 | 90.000 | .123E+04 | 180.000 | 3180.311 | 0.000 | .00042 |
| 159. | 3181.281 | 0.000 | .28E-05 | 0.00 | .54E-07 | -90.000 | .31E-05 | 90.000 | .125E+04 | 180.000 | 3179.913 | 0.000 | .00043 |
| 160. | 3180.916 | 0.000 | .28E-05 | 0.00 | .52E-07 | -90.000 | .31E-05 | 90.000 | .126E+04 | -180.000 | 3179.524 | 0.000 | .00044 |
| 161. | 3180.560 | 0.000 | .28E-05 | 0.00 | .51E-07 | -90.000 | .31E-05 | 90.000 | .127E+04 | -180.000 | 3179.144 | 0.000 | .00045 |
| 162. | 3180.215 | 0.000 | .28E-05 | 0.00 | .49E-07 | -90.000 | .31E-05 | 90.000 | .128E+04 | -180.000 | 3178.777 | 0.000 | .00045 |
| 163. | 3179.882 | 0.000 | .28E-05 | 0.00 | .47E-07 | -90.000 | .31E-05 | 90.000 | .129E+04 | 180.000 | 3178.421 | 0.000 | .00046 |
| 164. | 3179.561 | 0.000 | .28E-05 | 0.00 | .45E-07 | -90.000 | .31E-05 | 90.000 | .130E+04 | -180.000 | 3178.080 | 0.000 | .00047 |
| 165. | 3179.254 | 0.000 | .28E-05 | 0.00 | .43E-07 | -90.000 | .31E-05 | 90.000 | .130E+04 | -180.000 | 3177.753 | 0.000 | .00047 |
| 166. | 3178.962 | 0.000 | .28E-05 | 0.00 | .41E-07 | -90.000 | .31E-05 | 90.000 | .131E+04 | -180.000 | 3177.442 | 0.000 | .00048 |
| 167. | 3178.685 | 0.000 | .28E-05 | 0.00 | .38E-07 | -90.000 | .31E-05 | 90.000 | .132E+04 | -180.000 | 3177.148 | 0.000 | .00048 |
| 168. | 3178.426 | 0.000 | .28E-05 | 0.00 | .36E-07 | -90.000 | .31E-05 | 90.000 | .133E+04 | 180.000 | 3176.871 | 0.000 | .00049 |
| 169. | 3178.183 | 0.000 | .28E-05 | 0.00 | .33E-07 | -90.000 | .31E-05 | 90.000 | .133E+04 | 180.000 | 3176.613 | 0.000 | .00049 |
| 170. | 3177.960 | 0.000 | .28E-05 | 0.00 | .31E-07 | -90.000 | .31E-05 | 90.000 | .134E+04 | -180.000 | 3176.375 | 0.000 | .00050 |
| 171. | 3177.755 | 0.000 | .28E-05 | 0.00 | .28E-07 | -90.000 | .31E-05 | 90.000 | .134E+04 | -180.000 | 3176.157 | 0.000 | .00050 |
| 172. | 3177.569 | 0.000 | .28E-05 | 0.00 | .25E-07 | -90.000 | .31E-05 | 90.000 | .135E+04 | -180.000 | 3175.960 | 0.000 | .00051 |
| 173. | 3177.405 | 0.000 | .28E-05 | 0.00 | .22E-07 | -90.000 | .31E-05 | 90.000 | .135E+04 | -180.000 | 3175.785 | 0.000 | .00051 |
| 174. | 3177.261 | 0.000 | .28E-05 | 0.00 | .19E-07 | -90.000 | .31E-05 | 90.000 | .136E+04 | -180.000 | 3175.632 | 0.000 | .00051 |
| 175. | 3177.138 | 0.000 | .28E-05 | 0.00 | .16E-07 | -90.000 | .31E-05 | 90.000 | .136E+04 | 180.000 | 3175.502 | 0.000 | .00051 |
| 176. | 3177.037 | 0.000 | .28E-05 | 0.00 | .13E-07 | -90.000 | .31E-05 | 90.000 | .136E+04 | -180.000 | 3175.394 | 0.000 | .00052 |
| 177. | 3176.958 | 0.000 | .28E-05 | 0.00 | .96E-08 | -90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.311 | 0.000 | .00052 |
| 178. | 3176.902 | 0.000 | .28E-05 | 0.00 | .64E-08 | -90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.251 | 0.000 | .00052 |
| 179. | 3176.868 | 0.000 | .28E-05 | 0.00 | .32E-08 | -90.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.215 | 0.000 | .00052 |
| 180. | 3176.856 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | .137E+04 | 180.000 | 3175.202 | 0.000 | .00052 |

X-AXIS CYLINDER  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3346.406 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .176E+04 | 90.000 | 3343.809 | 0.000 | .00078 |
| 1. | 3346.362 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 89.463 | .176E+04 | 93.867 | 3343.747 | 0.000 | .00078 |
| 2. | 3346.229 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 88.926 | .178E+04 | 97.668 | 3343.561 | 0.000 | .00080 |
| 3. | 3346.008 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 88.392 | .181E+04 | 101.341 | 3343.252 | 0.000 | .00082 |
| 4. | 3345.699 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 87.861 | .185E+04 | 104.834 | 3342.820 | 0.000 | .00086 |
| 5. | 3345.302 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 87.334 | .190E+04 | 108.110 | 3342.266 | 0.000 | .00091 |
| 6. | 3344.819 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 86.812 | .196E+04 | 111.142 | 3341.592 | 0.000 | .00096 |
| 7. | 3344.249 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 86.296 | .203E+04 | 113.917 | 3340.798 | 0.000 | .00103 |
| 8. | 3343.593 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 85.787 | .210E+04 | 116.433 | 3339.886 | 0.000 | .00111 |
| 9. | 3342.853 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 85.287 | .218E+04 | 118.695 | 3338.859 | 0.000 | .00119 |
| 10. | 3342.029 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 84.796 | .226E+04 | 120.715 | 3337.718 | 0.000 | .00129 |
| 11. | 3341.122 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 84.314 | .235E+04 | 122.506 | 3336.465 | 0.000 | .00139 |
| 12. | 3340.134 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 83.843 | .244E+04 | 124.087 | 3335.104 | 0.000 | .00151 |
| 13. | 3339.066 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 83.384 | .254E+04 | 125.474 | 3333.636 | 0.000 | .00163 |
| 14. | 3337.918 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 82.937 | .263E+04 | 126.685 | 3332.065 | 0.000 | .00175 |
| 15. | 3336.694 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 82.503 | .273E+04 | 127.737 | 3330.395 | 0.000 | .00189 |
| 16. | 3335.394 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 82.083 | .283E+04 | 128.646 | 3328.627 | 0.000 | .00203 |
| 17. | 3334.019 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 81.678 | .293E+04 | 129.427 | 3326.765 | 0.000 | .00218 |
| 18. | 3332.571 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 81.287 | .303E+04 | 130.092 | 3324.814 | 0.000 | .00233 |
| 19. | 3331.053 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.912 | .313E+04 | 130.654 | 3322.777 | 0.000 | .00248 |
| 20. | 3329.465 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.554 | .323E+04 | 131.125 | 3320.657 | 0.000 | .00265 |
| 21. | 3327.810 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.212 | .333E+04 | 131.513 | 3318.458 | 0.000 | .00281 |
| 22. | 3326.089 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.887 | .342E+04 | 131.828 | 3316.185 | 0.000 | .00298 |
| 23. | 3324.304 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.580 | .352E+04 | 132.078 | 3313.841 | 0.000 | .00315 |
| 24. | 3322.456 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.291 | .361E+04 | 132.269 | 3311.431 | 0.000 | .00332 |
| 25. | 3320.549 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.020 | .370E+04 | 132.409 | 3308.958 | 0.000 | .00349 |
| 26. | 3318.583 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 78.767 | .379E+04 | 132.502 | 3306.427 | 0.000 | .00366 |
| 27. | 3316.560 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 78.533 | .387E+04 | 132.554 | 3303.843 | 0.000 | .00383 |
| 28. | 3314.482 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.319 | .396E+04 | 132.570 | 3301.208 | 0.000 | .00400 |
| 29. | 3312.351 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.123 | .404E+04 | 132.552 | 3298.529 | 0.000 | .00417 |
| 30. | 3310.169 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.947 | .411E+04 | 132.505 | 3295.808 | 0.000 | .00434 |
| 31. | 3307.938 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.790 | .419E+04 | 132.432 | 3293.050 | 0.000 | .00450 |
| 32. | 3305.658 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.653 | .426E+04 | 132.337 | 3290.259 | 0.000 | .00466 |
| 33. | 3303.333 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.535 | .432E+04 | 132.220 | 3287.440 | 0.000 | .00481 |
| 34. | 3300.963 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.436 | .439E+04 | 132.086 | 3284.595 | 0.000 | .00496 |
| 35. | 3298.551 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.357 | .444E+04 | 131.935 | 3281.730 | 0.000 | .00510 |
| 36. | 3296.097 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.297 | .450E+04 | 131.770 | 3278.849 | 0.000 | .00523 |
| 37. | 3293.605 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.256 | .455E+04 | 131.593 | 3275.954 | 0.000 | .00536 |
| 38. | 3291.074 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.234 | .460E+04 | 131.405 | 3273.050 | 0.000 | .00548 |
| 39. | 3288.507 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.231 | .464E+04 | 131.207 | 3270.141 | 0.000 | .00558 |
| 40. | 3285.906 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.246 | .468E+04 | 131.001 | 3267.230 | 0.000 | .00568 |
| 41. | 3283.272 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.280 | .471E+04 | 130.787 | 3264.320 | 0.000 | .00577 |
| 42. | 3280.607 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.331 | .474E+04 | 130.568 | 3261.416 | 0.000 | .00585 |
| 43. | 3277.912 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.400 | .476E+04 | 130.344 | 3258.519 | 0.000 | .00592 |
| 44. | 3275.190 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.486 | .478E+04 | 130.116 | 3255.635 | 0.000 | .00597 |
| 45. | 3272.441 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.589 | .479E+04 | 129.886 | 3252.764 | 0.000 | .00601 |
| 46. | 3269.668 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.708 | .480E+04 | 129.653 | 3249.912 | 0.000 | .00604 |
| 47. | 3266.873 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 77.842 | .480E+04 | 129.419 | 3247.079 | 0.000 | .00606 |
| 48. | 3264.058 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 77.992 | .480E+04 | 129.184 | 3244.270 | 0.000 | .00606 |
| 49. | 3261.225 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.157 | .479E+04 | 128.951 | 3241.487 | 0.000 | .00605 |

X-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3258.375 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.336 | .478E+04 | 128.719 | 3238.733 | 0.000 | .00603 |
| 51. | 3255.513 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.526 | .476E+04 | 128.490 | 3236.009 | 0.000 | .00599 |
| 52. | 3252.639 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.733 | .474E+04 | 128.265 | 3233.319 | 0.000 | .00594 |
| 53. | 3249.757 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.951 | .471E+04 | 128.044 | 3230.665 | 0.000 | .00587 |
| 54. | 3246.869 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.180 | .467E+04 | 127.830 | 3228.048 | 0.000 | .00580 |
| 55. | 3243.980 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.420 | .463E+04 | 127.623 | 3225.472 | 0.000 | .00571 |
| 56. | 3241.091 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.669 | .459E+04 | 127.425 | 3222.939 | 0.000 | .00560 |
| 57. | 3238.208 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 79.929 | .453E+04 | 127.238 | 3220.450 | 0.000 | .00548 |
| 58. | 3235.332 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 80.197 | .448E+04 | 127.063 | 3218.007 | 0.000 | .00535 |
| 59. | 3232.469 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 80.473 | .441E+04 | 126.902 | 3215.613 | 0.000 | .00521 |
| 60. | 3229.622 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 80.756 | .435E+04 | 126.758 | 3213.269 | 0.000 | .00506 |
| 61. | 3226.795 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.046 | .427E+04 | 126.633 | 3210.977 | 0.000 | .00490 |
| 62. | 3223.995 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.341 | .419E+04 | 126.530 | 3208.740 | 0.000 | .00473 |
| 63. | 3221.224 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.642 | .411E+04 | 126.453 | 3206.559 | 0.000 | .00455 |
| 64. | 3218.488 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.947 | .402E+04 | 126.404 | 3204.436 | 0.000 | .00437 |
| 65. | 3215.793 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.255 | .393E+04 | 126.389 | 3202.373 | 0.000 | .00417 |
| 66. | 3213.143 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.567 | .383E+04 | 126.412 | 3200.371 | 0.000 | .00397 |
| 67. | 3210.544 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.881 | .373E+04 | 126.479 | 3198.433 | 0.000 | .00377 |
| 68. | 3208.002 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.197 | .362E+04 | 126.596 | 3196.560 | 0.000 | .00357 |
| 69. | 3205.521 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.514 | .351E+04 | 126.770 | 3194.755 | 0.000 | .00336 |
| 70. | 3203.108 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.833 | .340E+04 | 127.011 | 3193.018 | 0.000 | .00315 |
| 71. | 3200.769 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.151 | .328E+04 | 127.327 | 3191.352 | 0.000 | .00294 |
| 72. | 3198.508 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.470 | .316E+04 | 127.731 | 3189.758 | 0.000 | .00274 |
| 73. | 3196.332 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.788 | .304E+04 | 128.235 | 3188.238 | 0.000 | .00253 |
| 74. | 3194.246 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.105 | .291E+04 | 128.857 | 3186.795 | 0.000 | .00233 |
| 75. | 3192.256 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.422 | .279E+04 | 129.614 | 3185.429 | 0.000 | .00214 |
| 76. | 3190.366 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.737 | .266E+04 | 130.528 | 3184.142 | 0.000 | .00195 |
| 77. | 3188.582 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.050 | .253E+04 | 131.625 | 3182.936 | 0.000 | .00177 |
| 78. | 3186.909 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.363 | .241E+04 | 132.936 | 3181.812 | 0.000 | .00160 |
| 79. | 3185.352 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.673 | .228E+04 | 134.495 | 3180.772 | 0.000 | .00144 |
| 80. | 3183.914 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.982 | .216E+04 | 136.345 | 3179.818 | 0.000 | .00129 |
| 81. | 3182.600 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.290 | .203E+04 | 138.533 | 3178.950 | 0.000 | .00115 |
| 82. | 3181.414 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.596 | .192E+04 | 141.112 | 3178.170 | 0.000 | .00102 |
| 83. | 3180.359 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.900 | .181E+04 | 144.139 | 3177.479 | 0.000 | .00091 |
| 84. | 3179.438 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.203 | .170E+04 | 147.670 | 3176.878 | 0.000 | .00081 |
| 85. | 3178.654 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.504 | .161E+04 | 151.754 | 3176.367 | 0.000 | .00072 |
| 86. | 3178.009 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.805 | .153E+04 | 156.423 | 3175.949 | 0.000 | .00065 |
| 87. | 3177.506 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.104 | .146E+04 | 161.670 | 3175.623 | 0.000 | .00059 |
| 88. | 3177.146 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.403 | .141E+04 | 167.440 | 3175.389 | 0.000 | .00055 |
| 89. | 3176.929 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.702 | .138E+04 | 173.610 | 3175.249 | 0.000 | .00053 |
| 90. | 3176.856 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | .137E+04 | -180.000 | 3175.202 | 0.000 | .00052 |
| 91. | 3176.929 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.298 | .138E+04 | -173.610 | 3175.249 | 0.000 | .00053 |
| 92. | 3177.146 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.597 | .141E+04 | -167.440 | 3175.389 | 0.000 | .00055 |
| 93. | 3177.506 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.896 | .146E+04 | -161.670 | 3175.623 | 0.000 | .00059 |
| 94. | 3178.009 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.195 | .153E+04 | -156.423 | 3175.949 | 0.000 | .00065 |
| 95. | 3178.654 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.496 | .161E+04 | -151.754 | 3176.367 | 0.000 | .00072 |
| 96. | 3179.438 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.797 | .170E+04 | -147.670 | 3176.878 | 0.000 | .00081 |
| 97. | 3180.359 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.100 | .181E+04 | -144.139 | 3177.479 | 0.000 | .00091 |
| 98. | 3181.414 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.404 | .192E+04 | -141.112 | 3178.170 | 0.000 | .00102 |
| 99. | 3182.600 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.710 | .203E+04 | -138.533 | 3178.950 | 0.000 | .00115 |

X-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3183.914 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.018 | .216E+04 | -136.345 | 3179.818 | 0.000 | .00129 |
| 101. | 3185.352 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.327 | .228E+04 | -134.495 | 3180.772 | 0.000 | .00144 |
| 102. | 3186.909 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.637 | .241E+04 | -132.936 | 3181.812 | 0.000 | .00160 |
| 103. | 3188.582 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.950 | .253E+04 | -131.625 | 3182.936 | 0.000 | .00177 |
| 104. | 3190.366 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 94.263 | .266E+04 | -130.528 | 3184.142 | 0.000 | .00195 |
| 105. | 3192.256 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 94.578 | .279E+04 | -129.614 | 3185.429 | 0.000 | .00214 |
| 106. | 3194.246 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .31E-05 | 94.895 | .291E+04 | -128.857 | 3186.795 | 0.000 | .00233 |
| 107. | 3196.332 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.212 | .304E+04 | -128.235 | 3188.238 | 0.000 | .00253 |
| 108. | 3198.508 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.530 | .316E+04 | -127.731 | 3189.758 | 0.000 | .00274 |
| 109. | 3200.769 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.849 | .328E+04 | -127.327 | 3191.352 | 0.000 | .00294 |
| 110. | 3203.108 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.167 | .340E+04 | -127.011 | 3193.018 | 0.000 | .00315 |
| 111. | 3205.521 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.486 | .351E+04 | -126.770 | 3194.755 | 0.000 | .00336 |
| 112. | 3208.002 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.803 | .362E+04 | -126.596 | 3196.560 | 0.000 | .00357 |
| 113. | 3210.544 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.119 | .373E+04 | -126.479 | 3198.433 | 0.000 | .00377 |
| 114. | 3213.143 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.433 | .383E+04 | -126.412 | 3200.371 | 0.000 | .00397 |
| 115. | 3215.793 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.745 | .393E+04 | -126.389 | 3202.373 | 0.000 | .00417 |
| 116. | 3218.488 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.053 | .402E+04 | -126.404 | 3204.436 | 0.000 | .00437 |
| 117. | 3221.224 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.356 | .411E+04 | -126.453 | 3206.559 | 0.000 | .00455 |
| 118. | 3223.995 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.659 | .419E+04 | -126.530 | 3208.740 | 0.000 | .00473 |
| 119. | 3226.795 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.954 | .427E+04 | -126.633 | 3210.977 | 0.000 | .00490 |
| 120. | 3229.622 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 99.244 | .435E+04 | -126.758 | 3213.269 | 0.000 | .00506 |
| 121. | 3232.469 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 99.527 | .441E+04 | -126.902 | 3215.613 | 0.000 | .00521 |
| 122. | 3235.332 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 99.803 | .448E+04 | -127.063 | 3218.007 | 0.000 | .00535 |
| 123. | 3238.208 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 100.071 | .453E+04 | -127.238 | 3220.450 | 0.000 | .00548 |
| 124. | 3241.091 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.331 | .459E+04 | -127.425 | 3222.939 | 0.000 | .00560 |
| 125. | 3243.980 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.580 | .463E+04 | -127.623 | 3225.472 | 0.000 | .00571 |
| 126. | 3246.869 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.820 | .467E+04 | -127.830 | 3228.048 | 0.000 | .00580 |
| 127. | 3249.757 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.049 | .471E+04 | -128.044 | 3230.665 | 0.000 | .00587 |
| 128. | 3252.639 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.267 | .474E+04 | -128.265 | 3233.319 | 0.000 | .00594 |
| 129. | 3255.513 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.472 | .476E+04 | -128.490 | 3236.009 | 0.000 | .00599 |
| 130. | 3258.375 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.664 | .478E+04 | -128.719 | 3238.733 | 0.000 | .00603 |
| 131. | 3261.225 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.843 | .479E+04 | -128.951 | 3241.487 | 0.000 | .00605 |
| 132. | 3264.058 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 102.008 | .480E+04 | -129.184 | 3244.270 | 0.000 | .00606 |
| 133. | 3266.873 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 102.158 | .480E+04 | -129.419 | 3247.079 | 0.000 | .00606 |
| 134. | 3269.668 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.292 | .480E+04 | -129.653 | 3249.912 | 0.000 | .00604 |
| 135. | 3272.441 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.411 | .479E+04 | -129.886 | 3252.764 | 0.000 | .00601 |
| 136. | 3275.190 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.514 | .478E+04 | -130.116 | 3255.635 | 0.000 | .00597 |
| 137. | 3277.912 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.600 | .476E+04 | -130.344 | 3258.519 | 0.000 | .00592 |
| 138. | 3280.607 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.669 | .474E+04 | -130.568 | 3261.416 | 0.000 | .00585 |
| 139. | 3283.272 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.720 | .471E+04 | -130.787 | 3264.320 | 0.000 | .00577 |
| 140. | 3285.906 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.754 | .468E+04 | -131.001 | 3267.230 | 0.000 | .00568 |
| 141. | 3288.507 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.769 | .464E+04 | -131.207 | 3270.141 | 0.000 | .00558 |
| 142. | 3291.074 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.766 | .460E+04 | -131.405 | 3273.050 | 0.000 | .00548 |
| 143. | 3293.605 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.744 | .455E+04 | -131.593 | 3275.954 | 0.000 | .00536 |
| 144. | 3296.097 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.703 | .450E+04 | -131.770 | 3278.849 | 0.000 | .00523 |
| 145. | 3298.551 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.643 | .444E+04 | -131.935 | 3281.730 | 0.000 | .00510 |
| 146. | 3300.963 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.564 | .439E+04 | -132.086 | 3284.595 | 0.000 | .00496 |
| 147. | 3303.333 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.465 | .432E+04 | -132.220 | 3287.440 | 0.000 | .00481 |
| 148. | 3305.658 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.347 | .426E+04 | -132.337 | 3290.259 | 0.000 | .00466 |
| 149. | 3307.938 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.210 | .419E+04 | -132.432 | 3293.050 | 0.000 | .00450 |

X-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3310.169 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.053 | .411E+04 | -132.505 | 3295.808 | 0.000 | .00434 |
| 151. | 3312.351 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.877 | .404E+04 | -132.552 | 3298.529 | 0.000 | .00417 |
| 152. | 3314.482 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.661 | .396E+04 | -132.570 | 3301.208 | 0.000 | .00400 |
| 153. | 3316.560 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 101.466 | .387E+04 | -132.554 | 3303.843 | 0.000 | .00383 |
| 154. | 3318.583 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 101.233 | .379E+04 | -132.502 | 3306.427 | 0.000 | .00366 |
| 155. | 3320.549 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.960 | .370E+04 | -132.409 | 3308.958 | 0.000 | .00349 |
| 156. | 3322.456 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.709 | .361E+04 | -132.269 | 3311.431 | 0.000 | .00332 |
| 157. | 3324.304 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.420 | .352E+04 | -132.078 | 3313.841 | 0.000 | .00315 |
| 158. | 3326.089 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.113 | .342E+04 | -131.828 | 3316.185 | 0.000 | .00298 |
| 159. | 3327.810 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.788 | .333E+04 | -131.513 | 3318.456 | 0.000 | .00281 |
| 160. | 3329.465 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.446 | .323E+04 | -131.125 | 3320.657 | 0.000 | .00265 |
| 161. | 3331.053 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.088 | .313E+04 | -130.654 | 3322.777 | 0.000 | .00248 |
| 162. | 3332.571 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 98.713 | .303E+04 | -130.092 | 3324.814 | 0.000 | .00233 |
| 163. | 3334.019 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 98.322 | .293E+04 | -129.427 | 3326.765 | 0.000 | .00218 |
| 164. | 3335.394 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 97.917 | .283E+04 | -128.646 | 3328.627 | 0.000 | .00203 |
| 165. | 3336.694 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 97.497 | .273E+04 | -127.737 | 3330.395 | 0.000 | .00189 |
| 166. | 3337.918 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 97.063 | .263E+04 | -126.685 | 3332.065 | 0.000 | .00175 |
| 167. | 3339.066 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 96.616 | .254E+04 | -125.474 | 3333.636 | 0.000 | .00163 |
| 168. | 3340.134 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 96.157 | .244E+04 | -124.087 | 3335.104 | 0.000 | .00151 |
| 169. | 3341.122 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 95.686 | .235E+04 | -122.506 | 3336.465 | 0.000 | .00139 |
| 170. | 3342.029 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 95.204 | .226E+04 | -120.715 | 3337.718 | 0.000 | .00129 |
| 171. | 3342.853 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 94.713 | .216E+04 | -118.695 | 3338.859 | 0.000 | .00119 |
| 172. | 3343.593 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 94.213 | .210E+04 | -116.433 | 3339.886 | 0.000 | .00111 |
| 173. | 3344.249 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 93.704 | .203E+04 | -113.917 | 3340.798 | 0.000 | .00103 |
| 174. | 3344.819 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 93.188 | .196E+04 | -111.142 | 3341.592 | 0.000 | .00096 |
| 175. | 3345.302 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 92.666 | .190E+04 | -108.110 | 3342.266 | 0.000 | .00091 |
| 176. | 3345.699 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 92.139 | .185E+04 | -104.834 | 3342.820 | 0.000 | .00086 |
| 177. | 3346.008 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 91.608 | .181E+04 | -101.341 | 3343.252 | 0.000 | .00082 |
| 178. | 3346.229 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 91.074 | .178E+04 | -97.668 | 3343.561 | 0.000 | .00080 |
| 179. | 3346.362 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.537 | .176E+04 | -93.867 | 3343.747 | 0.000 | .00078 |
| 180. | 3346.406 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .176E+04 | -90.000 | 3317.263 | 0.000 | .00871 |

Y-AXIS CYLINDER  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | 90.000 | 3314.183 | 0.000 | .00370 |
| 1. | 3326.458 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 89.479 | .138E+04 | 95.707 | 3324.900 | 0.000 | .00047 |
| 2. | 3326.340 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 88.960 | .141E+04 | 101.231 | 3324.719 | 0.000 | .00049 |
| 3. | 3326.143 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 88.442 | .145E+04 | 106.419 | 3324.417 | 0.000 | .00052 |
| 4. | 3325.867 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 87.927 | .152E+04 | 111.163 | 3323.996 | 0.000 | .00056 |
| 5. | 3325.515 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 87.416 | .159E+04 | 115.405 | 3323.456 | 0.000 | .00062 |
| 6. | 3325.085 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 86.910 | .167E+04 | 119.131 | 3322.800 | 0.000 | .00069 |
| 7. | 3324.580 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 86.410 | .177E+04 | 122.357 | 3322.028 | 0.000 | .00077 |
| 8. | 3324.001 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 85.917 | .187E+04 | 125.120 | 3321.144 | 0.000 | .00086 |
| 9. | 3323.348 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 85.431 | .198E+04 | 127.466 | 3320.150 | 0.000 | .00096 |
| 10. | 3322.623 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 84.953 | .209E+04 | 129.440 | 3319.049 | 0.000 | .00108 |
| 11. | 3321.827 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 84.485 | .221E+04 | 131.091 | 3317.843 | 0.000 | .00120 |
| 12. | 3320.964 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 84.027 | .233E+04 | 132.459 | 3316.536 | 0.000 | .00133 |
| 13. | 3320.033 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 83.580 | .245E+04 | 133.583 | 3315.131 | 0.000 | .00148 |
| 14. | 3319.037 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 83.145 | .257E+04 | 134.496 | 3313.633 | 0.000 | .00163 |
| 15. | 3317.979 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 82.722 | .269E+04 | 135.227 | 3312.046 | 0.000 | .00179 |
| 16. | 3316.860 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 82.312 | .282E+04 | 135.800 | 3310.372 | 0.000 | .00196 |
| 17. | 3315.683 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 81.916 | .294E+04 | 136.236 | 3308.618 | 0.000 | .00213 |
| 18. | 3314.449 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 81.534 | .306E+04 | 136.553 | 3306.787 | 0.000 | .00231 |
| 19. | 3313.161 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 81.168 | .318E+04 | 136.768 | 3304.883 | 0.000 | .00250 |
| 20. | 3311.821 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.817 | .330E+04 | 136.893 | 3302.913 | 0.000 | .00269 |
| 21. | 3310.432 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.482 | .342E+04 | 136.939 | 3300.879 | 0.000 | .00289 |
| 22. | 3308.995 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 80.163 | .353E+04 | 136.917 | 3298.788 | 0.000 | .00308 |
| 23. | 3307.514 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.862 | .364E+04 | 136.835 | 3296.644 | 0.000 | .00329 |
| 24. | 3305.990 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.578 | .375E+04 | 136.701 | 3294.452 | 0.000 | .00349 |
| 25. | 3304.425 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.312 | .386E+04 | 136.520 | 3292.217 | 0.000 | .00369 |
| 26. | 3302.822 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 79.063 | .396E+04 | 136.299 | 3289.943 | 0.000 | .00390 |
| 27. | 3301.183 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .36E-05 | 78.834 | .406E+04 | 136.042 | 3287.636 | 0.000 | .00410 |
| 28. | 3299.510 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.623 | .416E+04 | 135.753 | 3285.299 | 0.000 | .00431 |
| 29. | 3297.805 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.430 | .425E+04 | 135.436 | 3282.939 | 0.000 | .00451 |
| 30. | 3296.068 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.257 | .435E+04 | 135.094 | 3280.559 | 0.000 | .00471 |
| 31. | 3294.304 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 78.103 | .443E+04 | 134.730 | 3278.164 | 0.000 | .00490 |
| 32. | 3292.511 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.969 | .451E+04 | 134.347 | 3275.758 | 0.000 | .00509 |
| 33. | 3290.693 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.854 | .459E+04 | 133.947 | 3273.345 | 0.000 | .00527 |
| 34. | 3288.851 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.758 | .467E+04 | 133.531 | 3270.930 | 0.000 | .00545 |
| 35. | 3286.985 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.682 | .474E+04 | 133.101 | 3268.516 | 0.000 | .00562 |
| 36. | 3285.097 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.625 | .480E+04 | 132.658 | 3266.107 | 0.000 | .00578 |
| 37. | 3283.188 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 77.587 | .486E+04 | 132.205 | 3263.707 | 0.000 | .00593 |
| 38. | 3281.259 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.568 | .492E+04 | 131.741 | 3261.318 | 0.000 | .00608 |
| 39. | 3279.309 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.569 | .497E+04 | 131.268 | 3258.944 | 0.000 | .00621 |
| 40. | 3277.340 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.588 | .502E+04 | 130.787 | 3256.588 | 0.000 | .00633 |
| 41. | 3275.353 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.626 | .506E+04 | 130.298 | 3254.253 | 0.000 | .00644 |
| 42. | 3273.347 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.682 | .509E+04 | 129.803 | 3251.940 | 0.000 | .00654 |
| 43. | 3271.323 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.756 | .512E+04 | 129.301 | 3249.654 | 0.000 | .00662 |
| 44. | 3269.281 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.848 | .515E+04 | 128.793 | 3247.395 | 0.000 | .00669 |
| 45. | 3267.221 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 77.957 | .516E+04 | 128.279 | 3245.166 | 0.000 | .00675 |
| 46. | 3265.143 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 78.082 | .518E+04 | 127.761 | 3242.968 | 0.000 | .00679 |
| 47. | 3263.048 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 78.224 | .518E+04 | 127.237 | 3240.803 | 0.000 | .00682 |
| 48. | 3260.936 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 78.381 | .518E+04 | 126.709 | 3238.672 | 0.000 | .00683 |
| 49. | 3258.807 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.554 | .518E+04 | 126.177 | 3236.578 | 0.000 | .00682 |

Y-AXIS CYLINDER  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3256.661 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.741 | .517E+04 | 125.640 | 3234.520 | 0.000 | .00680 |
| 51. | 3254.498 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 78.941 | .515E+04 | 125.100 | 3232.500 | 0.000 | .00676 |
| 52. | 3252.320 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.155 | .512E+04 | 124.556 | 3230.518 | 0.000 | .00670 |
| 53. | 3250.127 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.362 | .509E+04 | 124.009 | 3228.575 | 0.000 | .00663 |
| 54. | 3247.921 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.619 | .505E+04 | 123.459 | 3226.673 | 0.000 | .00654 |
| 55. | 3245.701 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 79.868 | .501E+04 | 122.907 | 3224.810 | 0.000 | .00644 |
| 56. | 3243.470 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 80.127 | .496E+04 | 122.352 | 3222.988 | 0.000 | .00631 |
| 57. | 3241.230 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 80.395 | .490E+04 | 121.796 | 3221.208 | 0.000 | .00618 |
| 58. | 3238.983 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 80.671 | .483E+04 | 121.238 | 3219.468 | 0.000 | .00603 |
| 59. | 3236.730 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 80.954 | .476E+04 | 120.680 | 3217.770 | 0.000 | .00586 |
| 60. | 3234.476 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 81.244 | .468E+04 | 120.122 | 3216.114 | 0.000 | .00568 |
| 61. | 3232.222 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 81.540 | .460E+04 | 119.565 | 3214.501 | 0.000 | .00548 |
| 62. | 3229.973 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.841 | .451E+04 | 119.009 | 3212.929 | 0.000 | .00528 |
| 63. | 3227.732 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.146 | .441E+04 | 118.457 | 3211.401 | 0.000 | .00506 |
| 64. | 3225.503 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.454 | .431E+04 | 117.910 | 3209.916 | 0.000 | .00483 |
| 65. | 3223.292 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 82.764 | .420E+04 | 117.369 | 3208.474 | 0.000 | .00460 |
| 66. | 3221.101 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.076 | .408E+04 | 116.836 | 3207.076 | 0.000 | .00435 |
| 67. | 3218.938 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.389 | .396E+04 | 116.314 | 3205.723 | 0.000 | .00411 |
| 68. | 3216.807 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 83.702 | .383E+04 | 115.805 | 3204.416 | 0.000 | .00385 |
| 69. | 3214.714 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.014 | .370E+04 | 115.314 | 3203.154 | 0.000 | .00360 |
| 70. | 3212.664 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.326 | .356E+04 | 114.843 | 3201.940 | 0.000 | .00334 |
| 71. | 3210.664 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.636 | .342E+04 | 114.397 | 3200.774 | 0.000 | .00308 |
| 72. | 3208.720 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 84.944 | .327E+04 | 113.983 | 3199.656 | 0.000 | .00282 |
| 73. | 3206.837 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 85.250 | .312E+04 | 113.608 | 3198.589 | 0.000 | .00257 |
| 74. | 3205.021 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 85.553 | .296E+04 | 113.281 | 3197.573 | 0.000 | .00232 |
| 75. | 3203.280 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 85.853 | .280E+04 | 113.012 | 3196.609 | 0.000 | .00208 |
| 76. | 3201.618 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 86.150 | .263E+04 | 112.817 | 3195.699 | 0.000 | .00185 |
| 77. | 3200.043 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 86.444 | .247E+04 | 112.713 | 3194.844 | 0.000 | .00162 |
| 78. | 3198.558 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 86.734 | .230E+04 | 112.724 | 3194.046 | 0.000 | .00141 |
| 79. | 3197.170 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 87.021 | .213E+04 | 112.863 | 3193.305 | 0.000 | .00121 |
| 80. | 3195.884 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 87.304 | .195E+04 | 113.232 | 3192.624 | 0.000 | .00102 |
| 81. | 3194.705 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 87.584 | .178E+04 | 113.832 | 3192.003 | 0.000 | .00085 |
| 82. | 3193.637 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 87.861 | .160E+04 | 114.770 | 3191.443 | 0.000 | .00069 |
| 83. | 3192.685 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 88.135 | .142E+04 | 116.175 | 3190.947 | 0.000 | .00054 |
| 84. | 3191.852 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 88.407 | .125E+04 | 118.244 | 3190.514 | 0.000 | .00042 |
| 85. | 3191.141 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 88.676 | .108E+04 | 121.290 | 3190.146 | 0.000 | .00031 |
| 86. | 3190.556 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 88.943 | .911E+03 | 125.830 | 3189.844 | 0.000 | .00022 |
| 87. | 3190.098 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 89.209 | .756E+03 | 132.725 | 3189.608 | 0.000 | .00015 |
| 88. | 3189.770 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 89.473 | .621E+03 | 143.338 | 3189.439 | 0.000 | .00010 |
| 89. | 3189.573 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 89.737 | .523E+03 | 159.230 | 3189.337 | 0.000 | .00007 |
| 90. | 3189.507 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 90.000 | .486E+03 | 180.000 | 3189.303 | 0.000 | .00006 |
| 91. | 3189.573 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 90.263 | .523E+03 | -159.230 | 3189.337 | 0.000 | .00007 |
| 92. | 3189.770 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 90.527 | .621E+03 | -143.338 | 3189.439 | 0.000 | .00010 |
| 93. | 3190.098 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 90.791 | .756E+03 | -132.725 | 3189.608 | 0.000 | .00015 |
| 94. | 3190.556 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 91.057 | .911E+03 | -125.830 | 3189.844 | 0.000 | .00022 |
| 95. | 3191.141 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 91.324 | .108E+04 | -121.290 | 3190.146 | 0.000 | .00031 |
| 96. | 3191.852 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 91.593 | .125E+04 | -118.244 | 3190.514 | 0.000 | .00042 |
| 97. | 3192.685 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 91.865 | .142E+04 | -116.175 | 3190.947 | 0.000 | .00054 |
| 98. | 3193.637 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 92.139 | .160E+04 | -114.770 | 3191.443 | 0.000 | .00069 |
| 99. | 3194.705 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 92.416 | .178E+04 | -113.832 | 3192.003 | 0.000 | .00085 |

Y-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3195.884 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 92.696 | .195E+04 | -113.232 | 3192.624 | 0.000 | .00102 |
| 101. | 3197.170 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 92.979 | .213E+04 | -112.883 | 3193.305 | 0.000 | .00121 |
| 102. | 3198.558 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.266 | .230E+04 | -112.724 | 3194.046 | 0.000 | .00141 |
| 103. | 3200.043 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.556 | .247E+04 | -112.713 | 3194.844 | 0.000 | .00162 |
| 104. | 3201.618 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.850 | .263E+04 | -112.817 | 3195.699 | 0.000 | .00185 |
| 105. | 3203.280 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.147 | .280E+04 | -113.012 | 3196.609 | 0.000 | .00208 |
| 106. | 3205.021 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.447 | .296E+04 | -113.281 | 3197.573 | 0.000 | .00232 |
| 107. | 3206.837 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.750 | .312E+04 | -113.608 | 3198.589 | 0.000 | .00257 |
| 108. | 3208.720 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.056 | .327E+04 | -113.983 | 3199.656 | 0.000 | .00282 |
| 109. | 3210.664 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.364 | .342E+04 | -114.397 | 3200.774 | 0.000 | .00308 |
| 110. | 3212.664 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.674 | .356E+04 | -114.843 | 3201.940 | 0.000 | .00334 |
| 111. | 3214.714 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.986 | .370E+04 | -115.314 | 3203.154 | 0.000 | .00360 |
| 112. | 3216.807 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.298 | .383E+04 | -115.805 | 3204.416 | 0.000 | .00385 |
| 113. | 3218.938 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.611 | .396E+04 | -116.314 | 3205.723 | 0.000 | .00411 |
| 114. | 3221.101 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.924 | .408E+04 | -116.836 | 3207.076 | 0.000 | .00435 |
| 115. | 3223.292 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.236 | .420E+04 | -117.369 | 3208.474 | 0.000 | .00460 |
| 116. | 3225.503 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.546 | .431E+04 | -117.910 | 3209.916 | 0.000 | .00483 |
| 117. | 3227.732 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.854 | .441E+04 | -118.457 | 3211.401 | 0.000 | .00506 |
| 118. | 3229.973 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.159 | .451E+04 | -119.009 | 3212.929 | 0.000 | .00528 |
| 119. | 3232.222 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 98.460 | .460E+04 | -119.565 | 3214.501 | 0.000 | .00548 |
| 120. | 3234.476 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 98.756 | .468E+04 | -120.122 | 3216.114 | 0.000 | .00568 |
| 121. | 3236.730 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 99.046 | .476E+04 | -120.680 | 3217.770 | 0.000 | .00586 |
| 122. | 3238.983 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 99.329 | .483E+04 | -121.238 | 3219.468 | 0.000 | .00603 |
| 123. | 3241.230 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 99.605 | .490E+04 | -121.796 | 3221.208 | 0.000 | .00618 |
| 124. | 3243.470 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 99.873 | .496E+04 | -122.352 | 3222.988 | 0.000 | .00631 |
| 125. | 3245.701 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.132 | .501E+04 | -122.907 | 3224.810 | 0.000 | .00644 |
| 126. | 3247.921 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.381 | .505E+04 | -123.459 | 3226.673 | 0.000 | .00654 |
| 127. | 3250.127 | 0.000 | .27E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.618 | .509E+04 | -124.009 | 3228.575 | 0.000 | .00663 |
| 128. | 3252.320 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 100.845 | .512E+04 | -124.556 | 3230.518 | 0.000 | .00670 |
| 129. | 3254.498 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.059 | .515E+04 | -125.100 | 3232.500 | 0.000 | .00676 |
| 130. | 3256.661 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.259 | .517E+04 | -125.640 | 3234.520 | 0.000 | .00680 |
| 131. | 3258.807 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .33E-05 | 101.446 | .518E+04 | -126.177 | 3236.578 | 0.000 | .00682 |
| 132. | 3260.936 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 101.619 | .518E+04 | -126.709 | 3238.672 | 0.000 | .00683 |
| 133. | 3263.048 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 101.776 | .518E+04 | -127.237 | 3240.803 | 0.000 | .00682 |
| 134. | 3265.143 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 101.918 | .518E+04 | -127.761 | 3242.968 | 0.000 | .00679 |
| 135. | 3267.221 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.043 | .516E+04 | -128.279 | 3245.166 | 0.000 | .00675 |
| 136. | 3269.281 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.152 | .515E+04 | -128.793 | 3247.395 | 0.000 | .00669 |
| 137. | 3271.323 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.244 | .512E+04 | -129.301 | 3249.654 | 0.000 | .00662 |
| 138. | 3273.347 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.318 | .509E+04 | -129.803 | 3251.940 | 0.000 | .00654 |
| 139. | 3275.353 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.374 | .506E+04 | -130.298 | 3254.253 | 0.000 | .00644 |
| 140. | 3277.340 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.412 | .502E+04 | -130.787 | 3256.588 | 0.000 | .00633 |
| 141. | 3279.309 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.431 | .497E+04 | -131.268 | 3258.944 | 0.000 | .00621 |
| 142. | 3281.259 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .34E-05 | 102.432 | .492E+04 | -131.741 | 3261.318 | 0.000 | .00608 |
| 143. | 3283.188 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.413 | .486E+04 | -132.205 | 3263.707 | 0.000 | .00593 |
| 144. | 3285.097 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.375 | .480E+04 | -132.658 | 3266.107 | 0.000 | .00578 |
| 145. | 3286.985 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.318 | .474E+04 | -133.101 | 3268.516 | 0.000 | .00562 |
| 146. | 3288.851 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.242 | .467E+04 | -133.531 | 3270.930 | 0.000 | .00545 |
| 147. | 3290.693 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.146 | .459E+04 | -133.947 | 3273.345 | 0.000 | .00527 |
| 148. | 3292.511 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 102.031 | .451E+04 | -134.347 | 3275.758 | 0.000 | .00509 |
| 149. | 3294.304 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.897 | .443E+04 | -134.730 | 3278.164 | 0.000 | .00490 |

Y-AXIS CYLINDER  BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3296.068 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.743 | .435E+04 | -135.094 | 3280.559 | 0.000 | .00471 |
| 151. | 3297.805 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.570 | .425E+04 | -135.436 | 3282.939 | 0.000 | .00451 |
| 152. | 3299.510 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .35E-05 | 101.377 | .416E+04 | -135.753 | 3285.299 | 0.000 | .00431 |
| 153. | 3301.183 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .36E-05 | 101.166 | .406E+04 | -136.042 | 3287.636 | 0.000 | .00410 |
| 154. | 3302.822 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.937 | .396E+04 | -136.299 | 3289.943 | 0.000 | .00390 |
| 155. | 3304.425 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.688 | .386E+04 | -136.520 | 3292.217 | 0.000 | .00369 |
| 156. | 3305.990 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.422 | .375E+04 | -136.701 | 3294.452 | 0.000 | .00349 |
| 157. | 3307.514 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 100.138 | .364E+04 | -136.835 | 3296.644 | 0.000 | .00329 |
| 158. | 3308.995 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.837 | .353E+04 | -136.917 | 3298.788 | 0.000 | .00308 |
| 159. | 3310.432 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.518 | .342E+04 | -136.939 | 3300.879 | 0.000 | .00289 |
| 160. | 3311.821 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 99.183 | .330E+04 | -136.893 | 3302.913 | 0.000 | .00269 |
| 161. | 3313.161 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 98.832 | .318E+04 | -136.768 | 3304.883 | 0.000 | .00250 |
| 162. | 3314.449 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 98.466 | .306E+04 | -136.553 | 3306.787 | 0.000 | .00231 |
| 163. | 3315.683 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 98.084 | .294E+04 | -136.236 | 3308.618 | 0.000 | .00213 |
| 164. | 3316.860 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 97.686 | .282E+04 | -135.800 | 3310.372 | 0.000 | .00196 |
| 165. | 3317.979 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 97.278 | .269E+04 | -135.227 | 3312.046 | 0.000 | .00179 |
| 166. | 3319.037 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 96.855 | .257E+04 | -134.496 | 3313.633 | 0.000 | .00163 |
| 167. | 3320.033 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 96.420 | .245E+04 | -133.583 | 3315.131 | 0.000 | .00148 |
| 168. | 3320.964 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 95.973 | .233E+04 | -132.459 | 3316.536 | 0.000 | .00133 |
| 169. | 3321.827 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 95.515 | .221E+04 | -131.091 | 3317.843 | 0.000 | .00120 |
| 170. | 3322.623 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 95.047 | .209E+04 | -129.440 | 3319.049 | 0.000 | .00108 |
| 171. | 3323.348 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 94.569 | .198E+04 | -127.466 | 3320.150 | 0.000 | .00096 |
| 172. | 3324.001 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 94.083 | .187E+04 | -125.120 | 3321.144 | 0.000 | .00086 |
| 173. | 3324.580 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 93.590 | .177E+04 | -122.357 | 3322.028 | 0.000 | .00077 |
| 174. | 3325.085 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 93.090 | .167E+04 | -119.131 | 3322.800 | 0.000 | .00069 |
| 175. | 3325.515 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 92.584 | .159E+04 | -115.405 | 3323.456 | 0.000 | .00062 |
| 176. | 3325.867 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 92.073 | .152E+04 | -111.163 | 3323.996 | 0.000 | .00056 |
| 177. | 3326.143 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 91.558 | .145E+04 | -106.419 | 3324.417 | 0.000 | .00052 |
| 178. | 3326.340 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 91.040 | .141E+04 | -101.231 | 3324.719 | 0.000 | .00049 |
| 179. | 3326.458 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.521 | .138E+04 | -95.707 | 3324.900 | 0.000 | .00047 |
| 180. | 3326.497 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 | .137E+04 | -90.000 | 3324.961 | 0.000 | .00046 |

Z-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3460.448 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | 0. | 0.000 | 3460.448 | 0.000 | 0.00000 |
| 1. | 3460.349 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.762 | 0. | 0.000 | 3460.349 | 0.000 | 0.00000 |
| 2. | 3460.053 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.525 | 0. | 0.000 | 3460.053 | 0.000 | 0.00000 |
| 3. | 3459.562 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.291 | 0. | 0.000 | 3459.562 | 0.000 | 0.00000 |
| 4. | 3458.880 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.060 | 0. | 0.000 | 3458.880 | 0.000 | 0.00000 |
| 5. | 3458.011 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.834 | 0. | 0.000 | 3458.011 | 0.000 | 0.00000 |
| 6. | 3456.960 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.613 | 0. | 0.000 | 3456.960 | 0.000 | 0.00000 |
| 7. | 3455.735 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.400 | 0. | 0.000 | 3455.735 | 0.000 | 0.00000 |
| 8. | 3454.344 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.194 | 0. | 0.000 | 3454.344 | 0.000 | 0.00000 |
| 9. | 3452.796 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.997 | 0. | 0.000 | 3452.796 | 0.000 | 0.00000 |
| 10. | 3451.100 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.810 | 0. | 0.000 | 3451.100 | 0.000 | 0.00000 |
| 11. | 3449.267 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.633 | 0. | 0.000 | 3449.267 | 0.000 | 0.00000 |
| 12. | 3447.309 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.468 | 0. | 0.000 | 3447.309 | 0.000 | 0.00000 |
| 13. | 3445.237 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.314 | 0. | 0.000 | 3445.237 | 0.000 | 0.00000 |
| 14. | 3443.064 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.174 | 0. | 0.000 | 3443.064 | 0.000 | 0.00000 |
| 15. | 3440.802 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.046 | 0. | 0.000 | 3440.802 | 0.000 | 0.00000 |
| 16. | 3438.466 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.932 | 0. | 0.000 | 3438.466 | 0.000 | 0.00000 |
| 17. | 3436.067 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.832 | 0. | 0.000 | 3436.067 | 0.000 | 0.00000 |
| 18. | 3433.619 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.747 | 0. | 0.000 | 3433.619 | 0.000 | 0.00000 |
| 19. | 3431.135 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.676 | 0. | 0.000 | 3431.135 | 0.000 | 0.00000 |
| 20. | 3428.628 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.620 | 0. | 0.000 | 3428.628 | 0.000 | 0.00000 |
| 21. | 3426.112 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.579 | 0. | 0.000 | 3426.112 | 0.000 | 0.00000 |
| 22. | 3423.599 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.552 | 0. | 0.000 | 3423.599 | 0.000 | 0.00000 |
| 23. | 3421.101 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.541 | 0. | 0.000 | 3421.101 | 0.000 | 0.00000 |
| 24. | 3418.631 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.544 | 0. | 0.000 | 3418.631 | 0.000 | 0.00000 |
| 25. | 3416.200 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.561 | 0. | 0.000 | 3416.200 | 0.000 | 0.00000 |
| 26. | 3413.820 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.593 | 0. | 0.000 | 3413.820 | 0.000 | 0.00000 |
| 27. | 3411.501 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.639 | 0. | 0.000 | 3411.501 | 0.000 | 0.00000 |
| 28. | 3409.253 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.699 | 0. | 0.000 | 3409.253 | 0.000 | 0.00000 |
| 29. | 3407.087 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.772 | 0. | 0.000 | 3407.087 | 0.000 | 0.00000 |
| 30. | 3405.012 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.857 | 0. | 0.000 | 3405.012 | 0.000 | 0.00000 |
| 31. | 3403.036 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.955 | 0. | 0.000 | 3403.036 | 0.000 | 0.00000 |
| 32. | 3401.167 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.065 | 0. | 0.000 | 3401.167 | 0.000 | 0.00000 |
| 33. | 3399.414 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.185 | 0. | 0.000 | 3399.414 | 0.000 | 0.00000 |
| 34. | 3397.782 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.317 | 0. | 0.000 | 3397.782 | 0.000 | 0.00000 |
| 35. | 3396.279 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.458 | 0. | 0.000 | 3396.279 | 0.000 | 0.00000 |
| 36. | 3394.911 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.608 | 0. | 0.000 | 3394.911 | 0.000 | 0.00000 |
| 37. | 3393.682 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.766 | 0. | 0.000 | 3393.682 | 0.000 | 0.00000 |
| 38. | 3392.598 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.932 | 0. | 0.000 | 3392.598 | 0.000 | 0.00000 |
| 39. | 3391.662 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.106 | 0. | 0.000 | 3391.662 | 0.000 | 0.00000 |
| 40. | 3390.877 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.285 | 0. | 0.000 | 3390.877 | 0.000 | 0.00000 |
| 41. | 3390.248 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.469 | 0. | 0.000 | 3390.248 | 0.000 | 0.00000 |
| 42. | 3389.777 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.657 | 0. | 0.000 | 3389.777 | 0.000 | 0.00000 |
| 43. | 3389.464 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.850 | 0. | 0.000 | 3389.464 | 0.000 | 0.00000 |
| 44. | 3389.312 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.044 | 0. | 0.000 | 3389.312 | 0.000 | 0.00000 |
| 45. | 3389.320 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.241 | 0. | 0.000 | 3389.320 | 0.000 | 0.00000 |
| 46. | 3389.490 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.438 | 0. | 0.000 | 3389.490 | 0.000 | 0.00000 |
| 47. | 3389.821 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.636 | 0. | 0.000 | 3389.821 | 0.000 | 0.00000 |
| 48. | 3390.311 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.832 | 0. | 0.000 | 3390.311 | 0.000 | 0.00000 |
| 49. | 3390.960 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.027 | 0. | 0.000 | 3390.960 | 0.000 | 0.00000 |

Z-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3391.764 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.220 | 0. | 0.000 | 3391.764 | 0.000 | 0.00000 |
| 51. | 3392.721 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.408 | 0. | 0.000 | 3392.721 | 0.000 | 0.00000 |
| 52. | 3393.829 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.593 | 0. | 0.000 | 3393.829 | 0.000 | 0.00000 |
| 53. | 3395.082 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.772 | 0. | 0.000 | 3395.082 | 0.000 | 0.00000 |
| 54. | 3396.477 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.946 | 0. | 0.000 | 3396.477 | 0.000 | 0.00000 |
| 55. | 3398.009 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.112 | 0. | 0.000 | 3398.009 | 0.000 | 0.00000 |
| 56. | 3399.671 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.272 | 0. | 0.000 | 3399.671 | 0.000 | 0.00000 |
| 57. | 3401.458 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.423 | 0. | 0.000 | 3401.458 | 0.000 | 0.00000 |
| 58. | 3403.364 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.565 | 0. | 0.000 | 3403.364 | 0.000 | 0.00000 |
| 59. | 3405.380 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.698 | 0. | 0.000 | 3405.380 | 0.000 | 0.00000 |
| 60. | 3407.500 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.820 | 0. | 0.000 | 3407.500 | 0.000 | 0.00000 |
| 61. | 3409.714 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.932 | 0. | 0.000 | 3409.714 | 0.000 | 0.00000 |
| 62. | 3412.013 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.033 | 0. | 0.000 | 3412.013 | 0.000 | 0.00000 |
| 63. | 3414.389 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.122 | 0. | 0.000 | 3414.389 | 0.000 | 0.00000 |
| 64. | 3416.831 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.199 | 0. | 0.000 | 3416.831 | 0.000 | 0.00000 |
| 65. | 3419.329 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.263 | 0. | 0.000 | 3419.329 | 0.000 | 0.00000 |
| 66. | 3421.872 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.315 | 0. | 0.000 | 3421.872 | 0.000 | 0.00000 |
| 67. | 3424.448 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.353 | 0. | 0.000 | 3424.448 | 0.000 | 0.00000 |
| 68. | 3427.046 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.378 | 0. | 0.000 | 3427.046 | 0.000 | 0.00000 |
| 69. | 3429.653 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.389 | 0. | 0.000 | 3429.653 | 0.000 | 0.00000 |
| 70. | 3432.258 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.387 | 0. | 0.000 | 3432.258 | 0.000 | 0.00000 |
| 71. | 3434.847 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.372 | 0. | 0.000 | 3434.847 | 0.000 | 0.00000 |
| 72. | 3437.408 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.343 | 0. | 0.000 | 3437.408 | 0.000 | 0.00000 |
| 73. | 3439.927 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.300 | 0. | 0.000 | 3439.927 | 0.000 | 0.00000 |
| 74. | 3442.391 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.245 | 0. | 0.000 | 3442.391 | 0.000 | 0.00000 |
| 75. | 3444.787 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.176 | 0. | 0.000 | 3444.787 | 0.000 | 0.00000 |
| 76. | 3447.103 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.095 | 0. | 0.000 | 3447.103 | 0.000 | 0.00000 |
| 77. | 3449.326 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.002 | 0. | 0.000 | 3449.326 | 0.000 | 0.00000 |
| 78. | 3451.442 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.897 | 0. | 0.000 | 3451.442 | 0.000 | 0.00000 |
| 79. | 3453.439 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.781 | 0. | 0.000 | 3453.439 | 0.000 | 0.00000 |
| 80. | 3455.307 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.655 | 0. | 0.000 | 3455.307 | 0.000 | 0.00000 |
| 81. | 3457.034 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.518 | 0. | 0.000 | 3457.034 | 0.000 | 0.00000 |
| 82. | 3458.609 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.373 | 0. | 0.000 | 3458.609 | 0.000 | 0.00000 |
| 83. | 3460.023 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.220 | 0. | 0.000 | 3460.023 | 0.000 | 0.00000 |
| 84. | 3461.268 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.060 | 0. | 0.000 | 3461.268 | 0.000 | 0.00000 |
| 85. | 3462.334 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.893 | 0. | 0.000 | 3462.334 | 0.000 | 0.00000 |
| 86. | 3463.216 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.721 | 0. | 0.000 | 3463.216 | 0.000 | 0.00000 |
| 87. | 3463.908 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.545 | 0. | 0.000 | 3463.908 | 0.000 | 0.00000 |
| 88. | 3464.406 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.365 | 0. | 0.000 | 3464.406 | 0.000 | 0.00000 |
| 89. | 3464.706 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.183 | 0. | 0.000 | 3464.706 | 0.000 | 0.00000 |
| 90. | 3464.806 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | 0. | 0.000 | 3464.806 | 0.000 | 0.00000 |
| 91. | 3464.706 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.817 | 0. | 0.000 | 3464.706 | 0.000 | 0.00000 |
| 92. | 3464.406 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.635 | 0. | 0.000 | 3464.406 | 0.000 | 0.00000 |
| 93. | 3463.908 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.455 | 0. | 0.000 | 3463.908 | 0.000 | 0.00000 |
| 94. | 3463.216 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.279 | 0. | 0.000 | 3463.216 | 0.000 | 0.00000 |
| 95. | 3462.334 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.107 | 0. | 0.000 | 3462.334 | 0.000 | 0.00000 |
| 96. | 3461.268 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.940 | 0. | 0.000 | 3461.268 | 0.000 | 0.00000 |
| 97. | 3460.023 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.780 | 0. | 0.000 | 3460.023 | 0.000 | 0.00000 |
| 98. | 3458.609 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.627 | 0. | 0.000 | 3458.609 | 0.000 | 0.00000 |
| 99. | 3457.034 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.482 | 0. | 0.000 | 3457.034 | 0.000 | 0.00000 |

Z-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3455.307 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.345 | 0. | 0.000 | 3455.307 | 0.000 | 0.00000 |
| 101. | 3453.439 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.219 | 0. | 0.000 | 3453.439 | 0.000 | 0.00000 |
| 102. | 3451.442 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.103 | 0. | 0.000 | 3451.442 | 0.000 | 0.00000 |
| 103. | 3449.326 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.998 | 0. | 0.000 | 3449.326 | 0.000 | 0.00000 |
| 104. | 3447.103 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.905 | 0. | 0.000 | 3447.103 | 0.000 | 0.00000 |
| 105. | 3444.787 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.824 | 0. | 0.000 | 3444.787 | 0.000 | 0.00000 |
| 106. | 3442.391 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.755 | 0. | 0.000 | 3442.391 | 0.000 | 0.00000 |
| 107. | 3439.927 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.700 | 0. | 0.000 | 3439.927 | 0.000 | 0.00000 |
| 108. | 3437.408 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.657 | 0. | 0.000 | 3437.408 | 0.000 | 0.00000 |
| 109. | 3434.847 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.628 | 0. | 0.000 | 3434.847 | 0.000 | 0.00000 |
| 110. | 3432.258 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.613 | 0. | 0.000 | 3432.258 | 0.000 | 0.00000 |
| 111. | 3429.653 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.611 | 0. | 0.000 | 3429.653 | 0.000 | 0.00000 |
| 112. | 3427.046 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.622 | 0. | 0.000 | 3427.046 | 0.000 | 0.00000 |
| 113. | 3424.448 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.647 | 0. | 0.000 | 3424.448 | 0.000 | 0.00000 |
| 114. | 3421.872 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.685 | 0. | 0.000 | 3421.872 | 0.000 | 0.00000 |
| 115. | 3419.329 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.737 | 0. | 0.000 | 3419.329 | 0.000 | 0.00000 |
| 116. | 3416.831 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.801 | 0. | 0.000 | 3416.831 | 0.000 | 0.00000 |
| 117. | 3414.389 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.878 | 0. | 0.000 | 3414.389 | 0.000 | 0.00000 |
| 118. | 3412.013 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.967 | 0. | 0.000 | 3412.013 | 0.000 | 0.00000 |
| 119. | 3409.714 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.068 | 0. | 0.000 | 3409.714 | 0.000 | 0.00000 |
| 120. | 3407.500 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.180 | 0. | 0.000 | 3407.500 | 0.000 | 0.00000 |
| 121. | 3405.380 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.302 | 0. | 0.000 | 3405.380 | 0.000 | 0.00000 |
| 122. | 3403.364 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.435 | 0. | 0.000 | 3403.364 | 0.000 | 0.00000 |
| 123. | 3401.458 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.577 | 0. | 0.000 | 3401.458 | 0.000 | 0.00000 |
| 124. | 3399.671 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.728 | 0. | 0.000 | 3399.671 | 0.000 | 0.00000 |
| 125. | 3398.009 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.888 | 0. | 0.000 | 3398.009 | 0.000 | 0.00000 |
| 126. | 3396.477 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.054 | 0. | 0.000 | 3396.477 | 0.000 | 0.00000 |
| 127. | 3395.082 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.228 | 0. | 0.000 | 3395.082 | 0.000 | 0.00000 |
| 128. | 3393.829 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.407 | 0. | 0.000 | 3393.829 | 0.000 | 0.00000 |
| 129. | 3392.721 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.592 | 0. | 0.000 | 3392.721 | 0.000 | 0.00000 |
| 130. | 3391.764 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.780 | 0. | 0.000 | 3391.764 | 0.000 | 0.00000 |
| 131. | 3390.960 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 89.973 | 0. | 0.000 | 3390.960 | 0.000 | 0.00000 |
| 132. | 3390.311 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.168 | 0. | 0.000 | 3390.311 | 0.000 | 0.00000 |
| 133. | 3389.821 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.364 | 0. | 0.000 | 3389.821 | 0.000 | 0.00000 |
| 134. | 3389.490 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.562 | 0. | 0.000 | 3389.490 | 0.000 | 0.00000 |
| 135. | 3389.320 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.759 | 0. | 0.000 | 3389.320 | 0.000 | 0.00000 |
| 136. | 3389.312 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.956 | 0. | 0.000 | 3389.312 | 0.000 | 0.00000 |
| 137. | 3389.464 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.150 | 0. | 0.000 | 3389.464 | 0.000 | 0.00000 |
| 138. | 3389.777 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.342 | 0. | 0.000 | 3389.777 | 0.000 | 0.00000 |
| 139. | 3390.248 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.531 | 0. | 0.000 | 3390.248 | 0.000 | 0.00000 |
| 140. | 3390.877 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.715 | 0. | 0.000 | 3390.877 | 0.000 | 0.00000 |
| 141. | 3391.662 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.894 | 0. | 0.000 | 3391.662 | 0.000 | 0.00000 |
| 142. | 3392.598 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.068 | 0. | 0.000 | 3392.598 | 0.000 | 0.00000 |
| 143. | 3393.682 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.234 | 0. | 0.000 | 3393.682 | 0.000 | 0.00000 |
| 144. | 3394.911 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.392 | 0. | 0.000 | 3394.911 | 0.000 | 0.00000 |
| 145. | 3396.279 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.542 | 0. | 0.000 | 3396.279 | 0.000 | 0.00000 |
| 146. | 3397.782 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.683 | 0. | 0.000 | 3397.782 | 0.000 | 0.00000 |
| 147. | 3399.414 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.815 | 0. | 0.000 | 3399.414 | 0.000 | 0.00000 |
| 148. | 3401.167 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.935 | 0. | 0.000 | 3401.167 | 0.000 | 0.00000 |
| 149. | 3403.036 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.045 | 0. | 0.000 | 3403.036 | 0.000 | 0.00000 |

Z-AXIS CYLINDER BARIUM SODIUM NIOBATE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3405.012 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.143 | 0. | 0.000 | 3405.012 | 0.000 | 0.00000 |
| 151. | 3407.087 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.228 | 0. | 0.000 | 3407.087 | 0.000 | 0.00000 |
| 152. | 3409.253 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.301 | 0. | 0.000 | 3409.253 | 0.000 | 0.00000 |
| 153. | 3411.501 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.361 | 0. | 0.000 | 3411.501 | 0.000 | 0.00000 |
| 154. | 3413.820 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.407 | 0. | 0.000 | 3413.820 | 0.000 | 0.00000 |
| 155. | 3416.200 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.439 | 0. | 0.000 | 3416.200 | 0.000 | 0.00000 |
| 156. | 3418.631 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.456 | 0. | 0.000 | 3418.631 | 0.000 | 0.00000 |
| 157. | 3421.101 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.459 | 0. | 0.000 | 3421.101 | 0.000 | 0.00000 |
| 158. | 3423.599 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.448 | 0. | 0.000 | 3423.599 | 0.000 | 0.00000 |
| 159. | 3426.112 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.421 | 0. | 0.000 | 3426.112 | 0.000 | 0.00000 |
| 160. | 3428.628 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.380 | 0. | 0.000 | 3428.628 | 0.000 | 0.00000 |
| 161. | 3431.135 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 93.324 | 0. | 0.000 | 3431.135 | 0.000 | 0.00000 |
| 162. | 3433.619 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.253 | 0. | 0.000 | 3433.619 | 0.000 | 0.00000 |
| 163. | 3436.067 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.168 | 0. | 0.000 | 3436.067 | 0.000 | 0.00000 |
| 164. | 3438.466 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.068 | 0. | 0.000 | 3438.466 | 0.000 | 0.00000 |
| 165. | 3440.802 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.954 | 0. | 0.000 | 3440.802 | 0.000 | 0.00000 |
| 166. | 3443.064 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.826 | 0. | 0.000 | 3443.064 | 0.000 | 0.00000 |
| 167. | 3445.237 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.686 | 0. | 0.000 | 3445.237 | 0.000 | 0.00000 |
| 168. | 3447.309 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.532 | 0. | 0.000 | 3447.309 | 0.000 | 0.00000 |
| 169. | 3449.267 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.367 | 0. | 0.000 | 3449.267 | 0.000 | 0.00000 |
| 170. | 3451.100 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.190 | 0. | 0.000 | 3451.100 | 0.000 | 0.00000 |
| 171. | 3452.796 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.003 | 0. | 0.000 | 3452.796 | 0.000 | 0.00000 |
| 172. | 3454.344 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.806 | 0. | 0.000 | 3454.344 | 0.000 | 0.00000 |
| 173. | 3455.735 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.600 | 0. | 0.000 | 3455.735 | 0.000 | 0.00000 |
| 174. | 3456.960 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.387 | 0. | 0.000 | 3456.960 | 0.000 | 0.00000 |
| 175. | 3458.011 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.166 | 0. | 0.000 | 3458.011 | 0.000 | 0.00000 |
| 176. | 3458.880 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.940 | 0. | 0.000 | 3458.880 | 0.000 | 0.00000 |
| 177. | 3459.562 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.709 | 0. | 0.000 | 3459.562 | 0.000 | 0.00000 |
| 178. | 3460.053 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.475 | 0. | 0.000 | 3460.053 | 0.000 | 0.00000 |
| 179. | 3460.349 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.238 | 0. | 0.000 | 3460.349 | 0.000 | 0.00000 |
| 180. | 3460.448 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.000 | 0. | 0.000 | 3460.448 | 0.000 | 0.00000 |

Z-CUT BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |
| 1. | 1623.245 | .141 | .19E-05 | 0.00 | .56E-07 | 0.000 | .38E-05 | 90.000 | .328E+03 | 90.000 | 1623.225 | .062 | .00001 |
| 2. | 1623.353 | .297 | .19E-05 | 0.00 | .11E-06 | 0.000 | .38E-05 | 90.000 | .659E+03 | 90.000 | 1623.274 | .138 | .00005 |
| 3. | 1623.543 | .475 | .19E-05 | 0.00 | .17E-06 | 0.000 | .38E-05 | 90.000 | .992E+03 | 90.000 | 1623.366 | .239 | .00011 |
| 4. | 1623.827 | .679 | .19E-05 | 0.00 | .23E-06 | 0.000 | .38E-05 | 90.000 | .133E+04 | 90.000 | 1623.515 | .369 | .00019 |
| 5. | 1624.218 | .906 | .19E-05 | 0.00 | .28E-06 | 0.000 | .39E-05 | 90.000 | .166E+04 | 90.000 | 1623.735 | .528 | .00030 |
| 6. | 1624.727 | 1.151 | .20E-05 | 0.00 | .34E-06 | 0.000 | .39E-05 | 90.000 | .200E+04 | 90.000 | 1624.041 | .711 | .00042 |
| 7. | 1625.360 | 1.407 | .20E-05 | 0.00 | .39E-06 | 0.000 | .39E-05 | 90.000 | .233E+04 | 90.000 | 1624.442 | .914 | .00056 |
| 8. | 1626.122 | 1.669 | .20E-05 | 0.00 | .43E-06 | 0.000 | .39E-05 | 90.000 | .265E+04 | 90.000 | 1624.948 | 1.131 | .00072 |
| 9. | 1627.014 | 1.933 | .20E-05 | 0.00 | .48E-06 | 0.000 | .39E-05 | 90.000 | .296E+04 | 90.000 | 1625.563 | 1.356 | .00089 |
| 10. | 1628.038 | 2.193 | .20E-05 | 0.00 | .51E-06 | 0.000 | .39E-05 | 90.000 | .327E+04 | 90.000 | 1626.291 | 1.583 | .00107 |
| 11. | 1629.189 | 2.446 | .20E-05 | 0.00 | .55E-06 | 0.000 | .39E-05 | 90.000 | .357E+04 | 90.000 | 1627.132 | 1.809 | .00126 |
| 12. | 1630.466 | 2.690 | .20E-05 | 0.00 | .58E-06 | 0.000 | .39E-05 | 90.000 | .386E+04 | 90.000 | 1628.084 | 2.029 | .00146 |
| 13. | 1631.861 | 2.921 | .21E-05 | 0.00 | .60E-06 | 0.000 | .39E-05 | 90.000 | .414E+04 | 90.000 | 1629.144 | 2.241 | .00166 |
| 14. | 1633.370 | 3.138 | .21E-05 | 0.00 | .62E-06 | 0.000 | .39E-05 | 90.000 | .441E+04 | 90.000 | 1630.308 | 2.441 | .00187 |
| 15. | 1634.984 | 3.337 | .21E-05 | 0.00 | .63E-06 | 0.000 | .39E-05 | 90.000 | .467E+04 | 90.000 | 1631.568 | 2.628 | .00209 |
| 16. | 1636.695 | 3.519 | .21E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .492E+04 | 90.000 | 1632.919 | 2.798 | .00231 |
| 17. | 1638.494 | 3.681 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .517E+04 | 90.000 | 1634.352 | 2.952 | .00253 |
| 18. | 1640.371 | 3.822 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .541E+04 | 90.000 | 1635.858 | 3.087 | .00275 |
| 19. | 1642.315 | 3.941 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .564E+04 | 90.000 | 1637.428 | 3.203 | .00298 |
| 20. | 1644.316 | 4.037 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .586E+04 | 90.000 | 1639.053 | 3.298 | .00320 |
| 21. | 1646.363 | 4.111 | .23E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .607E+04 | 90.000 | 1640.722 | 3.373 | .00343 |
| 22. | 1648.443 | 4.160 | .23E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .628E+04 | 90.000 | 1642.425 | 3.427 | .00365 |
| 23. | 1650.544 | 4.187 | .23E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .648E+04 | 90.000 | 1644.152 | 3.460 | .00387 |
| 24. | 1652.656 | 4.189 | .23E-05 | 0.00 | .61E-06 | 0.000 | .40E-05 | 90.000 | .667E+04 | 90.000 | 1645.892 | 3.472 | .00409 |
| 25. | 1654.766 | 4.168 | .23E-05 | 0.00 | .60E-06 | 0.000 | .41E-05 | 90.000 | .685E+04 | 90.000 | 1647.634 | 3.463 | .00431 |
| 26. | 1656.862 | 4.124 | .24E-05 | 0.00 | .58E-06 | 0.000 | .41E-05 | 90.000 | .702E+04 | 90.000 | 1649.368 | 3.433 | .00452 |
| 27. | 1658.932 | 4.057 | .24E-05 | 0.00 | .56E-06 | 0.000 | .41E-05 | 90.000 | .719E+04 | 90.000 | 1651.084 | 3.383 | .00473 |
| 28. | 1660.965 | 3.968 | .24E-05 | 0.00 | .54E-06 | 0.000 | .41E-05 | 90.000 | .735E+04 | 90.000 | 1652.771 | 3.313 | .00493 |
| 29. | 1662.950 | 3.857 | .24E-05 | 0.00 | .51E-06 | 0.000 | .41E-05 | 90.000 | .750E+04 | 90.000 | 1654.421 | 3.225 | .00513 |
| 30. | 1664.875 | 3.725 | .24E-05 | 0.00 | .49E-06 | 0.000 | .41E-05 | 90.000 | .764E+04 | 90.000 | 1656.022 | 3.118 | .00532 |
| 31. | 1666.731 | 3.573 | .24E-05 | 0.00 | .46E-06 | 0.000 | .41E-05 | 90.000 | .777E+04 | 90.000 | 1657.566 | 2.994 | .00550 |
| 32. | 1668.505 | 3.403 | .25E-05 | 0.00 | .44E-06 | 0.000 | .41E-05 | 90.000 | .790E+04 | 90.000 | 1659.045 | 2.853 | .00567 |
| 33. | 1670.190 | 3.214 | .25E-05 | 0.00 | .41E-06 | 0.000 | .41E-05 | 90.000 | .802E+04 | 90.000 | 1660.449 | 2.696 | .00583 |
| 34. | 1671.776 | 3.008 | .25E-05 | 0.00 | .38E-06 | 0.000 | .41E-05 | 90.000 | .812E+04 | 90.000 | 1661.772 | 2.525 | .00598 |
| 35. | 1673.254 | 2.786 | .25E-05 | 0.00 | .34E-06 | 0.000 | .41E-05 | 90.000 | .822E+04 | 90.000 | 1663.005 | 2.340 | .00613 |
| 36. | 1674.616 | 2.550 | .25E-05 | 0.00 | .31E-06 | 0.000 | .41E-05 | 90.000 | .831E+04 | 90.000 | 1664.141 | 2.142 | .00626 |
| 37. | 1675.855 | 2.301 | .25E-05 | 0.00 | .28E-06 | 0.000 | .41E-05 | 90.000 | .839E+04 | 90.000 | 1665.176 | 1.933 | .00637 |
| 38. | 1676.965 | 2.040 | .25E-05 | 0.00 | .25E-06 | 0.000 | .41E-05 | 90.000 | .846E+04 | 90.000 | 1666.102 | 1.714 | .00648 |
| 39. | 1677.938 | 1.768 | .25E-05 | 0.00 | .21E-06 | 0.000 | .41E-05 | 90.000 | .853E+04 | 90.000 | 1666.915 | 1.486 | .00657 |
| 40. | 1678.771 | 1.488 | .25E-05 | 0.00 | .18E-06 | 0.000 | .42E-05 | 90.000 | .858E+04 | 90.000 | 1667.610 | 1.251 | .00665 |
| 41. | 1679.459 | 1.199 | .25E-05 | 0.00 | .14E-06 | 0.000 | .42E-05 | 90.000 | .862E+04 | 90.000 | 1668.184 | 1.008 | .00671 |
| 42. | 1679.997 | .905 | .25E-05 | 0.00 | .11E-06 | 0.000 | .42E-05 | 90.000 | .865E+04 | 90.000 | 1668.634 | .761 | .00676 |
| 43. | 1680.384 | .606 | .25E-05 | 0.00 | .72E-07 | 0.000 | .42E-05 | 90.000 | .868E+04 | 90.000 | 1668.957 | .509 | .00680 |
| 44. | 1680.617 | .304 | .25E-05 | 0.00 | .36E-07 | 0.000 | .42E-05 | 90.000 | .869E+04 | 90.000 | 1669.152 | .255 | .00682 |
| 45. | 1680.695 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .42E-05 | 90.000 | .870E+04 | 90.000 | 1669.217 | 0.000 | .00683 |
| 46. | 1680.617 | -.304 | .25E-05 | 0.00 | .36E-07 | 180.000 | .42E-05 | 90.000 | .869E+04 | 90.000 | 1669.152 | -.255 | .00682 |
| 47. | 1680.384 | -.606 | .25E-05 | 0.00 | .72E-07 | 180.000 | .42E-05 | 90.000 | .868E+04 | 90.000 | 1668.957 | -.509 | .00680 |
| 48. | 1679.997 | -.905 | .25E-05 | 0.00 | .11E-06 | 180.000 | .42E-05 | 90.000 | .865E+04 | 90.000 | 1668.634 | -.761 | .00676 |
| 49. | 1679.459 | -1.199 | .25E-05 | 0.00 | .14E-06 | 180.000 | .42E-05 | 90.000 | .862E+04 | 90.000 | 1668.184 | -1.008 | .00671 |

Z-CUT BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1678.771 | -1.488 | .25E-05 | 0.00 | .18E-06 | 180.000 | .42E-05 | 90.000 | .858E+04 | 90.000 | 1667.610 | -1.251 | .00665 |
| 51. | 1677.938 | -1.768 | .25E-05 | 0.00 | .21E-06 | 180.000 | .41E-05 | 90.000 | .853E+04 | 90.000 | 1666.915 | -1.486 | .00657 |
| 52. | 1676.965 | -2.040 | .25E-05 | 0.00 | .25E-06 | 180.000 | .41E-05 | 90.000 | .846E+04 | 90.000 | 1666.102 | -1.714 | .00648 |
| 53. | 1675.855 | -2.301 | .25E-05 | 0.00 | .28E-06 | 180.000 | .41E-05 | 90.000 | .839E+04 | 90.000 | 1665.176 | -1.933 | .00637 |
| 54. | 1674.616 | -2.550 | .25E-05 | 0.00 | .31E-06 | 180.000 | .41E-05 | 90.000 | .831E+04 | 90.000 | 1664.141 | -2.142 | .00626 |
| 55. | 1673.254 | -2.786 | .25E-05 | 0.00 | .34E-06 | 180.000 | .41E-05 | 90.000 | .822E+04 | 90.000 | 1663.005 | -2.340 | .00613 |
| 56. | 1671.776 | -3.008 | .25E-05 | 0.00 | .38E-06 | 180.000 | .41E-05 | 90.000 | .812E+04 | 90.000 | 1661.772 | -2.525 | .00598 |
| 57. | 1670.190 | -3.214 | .25E-05 | 0.00 | .41E-06 | 180.000 | .41E-05 | 90.000 | .802E+04 | 90.000 | 1660.449 | -2.696 | .00583 |
| 58. | 1668.505 | -3.403 | .25E-05 | 0.00 | .44E-06 | 180.000 | .41E-05 | 90.000 | .790E+04 | 90.000 | 1659.045 | -2.853 | .00567 |
| 59. | 1666.731 | -3.573 | .24E-05 | 0.00 | .46E-06 | 180.000 | .41E-05 | 90.000 | .777E+04 | 90.000 | 1657.566 | -2.994 | .00550 |
| 60. | 1664.875 | -3.725 | .24E-05 | 0.00 | .49E-06 | 180.000 | .41E-05 | 90.000 | .764E+04 | 90.000 | 1656.022 | -3.118 | .00532 |
| 61. | 1662.950 | -3.857 | .24E-05 | 0.00 | .51E-06 | 180.000 | .41E-05 | 90.000 | .750E+04 | 90.000 | 1654.421 | -3.225 | .00513 |
| 62. | 1660.965 | -3.968 | .24E-05 | 0.00 | .54E-06 | 180.000 | .41E-05 | 90.000 | .735E+04 | 90.000 | 1652.771 | -3.313 | .00493 |
| 63. | 1658.932 | -4.057 | .24E-05 | 0.00 | .56E-06 | 180.000 | .41E-05 | 90.000 | .719E+04 | 90.000 | 1651.084 | -3.383 | .00473 |
| 64. | 1656.862 | -4.124 | .24E-05 | 0.00 | .58E-06 | 180.000 | .41E-05 | 90.000 | .702E+04 | 90.000 | 1649.368 | -3.433 | .00452 |
| 65. | 1654.766 | -4.168 | .23E-05 | 0.00 | .60E-06 | 180.000 | .41E-05 | 90.000 | .685E+04 | 90.000 | 1647.634 | -3.463 | .00431 |
| 66. | 1652.656 | -4.189 | .23E-05 | 0.00 | .61E-06 | 180.000 | .40E-05 | 90.000 | .667E+04 | 90.000 | 1645.892 | -3.472 | .00409 |
| 67. | 1650.544 | -4.187 | .23E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .648E+04 | 90.000 | 1644.152 | -3.460 | .00387 |
| 68. | 1648.443 | -4.160 | .23E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .628E+04 | 90.000 | 1642.425 | -3.427 | .00365 |
| 69. | 1646.363 | -4.111 | .23E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .607E+04 | 90.000 | 1640.722 | -3.373 | .00343 |
| 70. | 1644.316 | -4.037 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .586E+04 | 90.000 | 1639.053 | -3.298 | .00320 |
| 71. | 1642.315 | -3.941 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .564E+04 | 90.000 | 1637.428 | -3.203 | .00298 |
| 72. | 1640.371 | -3.822 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .541E+04 | 90.000 | 1635.858 | -3.087 | .00275 |
| 73. | 1638.494 | -3.681 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .517E+04 | 90.000 | 1634.352 | -2.952 | .00253 |
| 74. | 1636.695 | -3.519 | .21E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .492E+04 | 90.000 | 1632.919 | -2.798 | .00231 |
| 75. | 1634.984 | -3.337 | .21E-05 | 0.00 | .63E-06 | 180.000 | .39E-05 | 90.000 | .467E+04 | 90.000 | 1631.568 | -2.628 | .00209 |
| 76. | 1633.370 | -3.138 | .21E-05 | 0.00 | .62E-06 | 180.000 | .39E-05 | 90.000 | .441E+04 | 90.000 | 1630.308 | -2.441 | .00187 |
| 77. | 1631.861 | -2.921 | .21E-05 | 0.00 | .60E-06 | 180.000 | .39E-05 | 90.000 | .414E+04 | 90.000 | 1629.144 | -2.241 | .00166 |
| 78. | 1630.466 | -2.690 | .20E-05 | 0.00 | .58E-06 | 180.000 | .39E-05 | 90.000 | .386E+04 | 90.000 | 1628.084 | -2.029 | .00146 |
| 79. | 1629.189 | -2.446 | .20E-05 | 0.00 | .55E-06 | 180.000 | .39E-05 | 90.000 | .357E+04 | 90.000 | 1627.132 | -1.809 | .00126 |
| 80. | 1628.038 | -2.193 | .20E-05 | 0.00 | .51E-06 | 180.000 | .39E-05 | 90.000 | .327E+04 | 90.000 | 1626.291 | -1.583 | .00107 |
| 81. | 1627.014 | -1.933 | .20E-05 | 0.00 | .48E-06 | 180.000 | .39E-05 | 90.000 | .296E+04 | 90.000 | 1625.563 | -1.356 | .00089 |
| 82. | 1626.122 | -1.669 | .20E-05 | 0.00 | .43E-06 | 180.000 | .39E-05 | 90.000 | .265E+04 | 90.000 | 1624.948 | -1.131 | .00072 |
| 83. | 1625.360 | -1.407 | .20E-05 | 0.00 | .39E-06 | 180.000 | .39E-05 | 90.000 | .233E+04 | 90.000 | 1624.442 | -.914 | .00056 |
| 84. | 1624.727 | -1.151 | .20E-05 | 0.00 | .34E-06 | 180.000 | .39E-05 | 90.000 | .200E+04 | 90.000 | 1624.041 | -.711 | .00042 |
| 85. | 1624.218 | -.906 | .19E-05 | 0.00 | .28E-06 | 180.000 | .39E-05 | 90.000 | .166E+04 | 90.000 | 1623.735 | -.528 | .00030 |
| 86. | 1623.827 | -.679 | .19E-05 | 0.00 | .23E-06 | 180.000 | .38E-05 | 90.000 | .133E+04 | 90.000 | 1623.515 | -.369 | .00019 |
| 87. | 1623.543 | -.475 | .19E-05 | 0.00 | .17E-06 | 180.000 | .38E-05 | 90.000 | .992E+03 | 90.000 | 1623.366 | -.239 | .00011 |
| 88. | 1623.353 | -.297 | .19E-05 | 0.00 | .11E-06 | 180.000 | .38E-05 | 90.000 | .659E+03 | 90.000 | 1623.274 | -.138 | .00005 |
| 89. | 1623.245 | -.141 | .19E-05 | 0.00 | .56E-07 | 180.000 | .38E-05 | 90.000 | .328E+03 | 90.000 | 1623.225 | -.062 | .00001 |
| 90. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |
| 91. | 1623.245 | .141 | .19E-05 | 0.00 | .56E-07 | 0.000 | .38E-05 | 90.000 | .328E+03 | -90.000 | 1623.225 | .062 | .00001 |
| 92. | 1623.353 | .297 | .19E-05 | 0.00 | .11E-06 | 0.000 | .38E-05 | 90.000 | .659E+03 | -90.000 | 1623.274 | .138 | .00005 |
| 93. | 1623.543 | .475 | .19E-05 | 0.00 | .17E-06 | 0.000 | .38E-05 | 90.000 | .992E+03 | -90.000 | 1623.366 | .239 | .00011 |
| 94. | 1623.827 | .679 | .19E-05 | 0.00 | .23E-06 | 0.000 | .38E-05 | 90.000 | .133E+04 | -90.000 | 1623.515 | .369 | .00019 |
| 95. | 1624.218 | .906 | .19E-05 | 0.00 | .28E-06 | 0.000 | .39E-05 | 90.000 | .166E+04 | -90.000 | 1623.735 | .528 | .00030 |
| 96. | 1624.727 | 1.151 | .20E-05 | 0.00 | .34E-06 | 0.000 | .39E-05 | 90.000 | .200E+04 | -90.000 | 1624.041 | .711 | .00042 |
| 97. | 1625.360 | 1.407 | .20E-05 | 0.00 | .39E-06 | 0.000 | .39E-05 | 90.000 | .233E+04 | -90.000 | 1624.442 | .914 | .00056 |
| 98. | 1626.122 | 1.669 | .20E-05 | 0.00 | .43E-06 | 0.000 | .39E-05 | 90.000 | .265E+04 | -90.000 | 1624.948 | 1.131 | .00072 |
| 99. | 1627.014 | 1.933 | .20E-05 | 0.00 | .48E-06 | 0.000 | .39E-05 | 90.000 | .296E+04 | -90.000 | 1625.563 | 1.356 | .00089 |

Z-CUT BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1628.038 | 2.193 | .20E-05 | 0.00 | .51E-06 | 0.000 | .39E-05 | 90.000 | .327E+04 | -90.000 | 1626.291 | 1.583 | .00107 |
| 101. | 1629.189 | 2.446 | .20E-05 | 0.00 | .55E-06 | 0.000 | .39E-05 | 90.000 | .357E+04 | -90.000 | 1627.132 | 1.809 | .00126 |
| 102. | 1630.466 | 2.690 | .20E-05 | 0.00 | .58E-06 | 0.000 | .39E-05 | 90.000 | .386E+04 | -90.000 | 1628.084 | 2.029 | .00146 |
| 103. | 1631.861 | 2.921 | .21E-05 | 0.00 | .60E-06 | 0.000 | .39E-05 | 90.000 | .414E+04 | -90.000 | 1629.144 | 2.241 | .00166 |
| 104. | 1633.370 | 3.138 | .21E-05 | 0.00 | .62E-06 | 0.000 | .39E-05 | 90.000 | .441E+04 | -90.000 | 1630.308 | 2.441 | .00187 |
| 105. | 1634.984 | 3.337 | .21E-05 | 0.00 | .63E-06 | 0.000 | .39E-05 | 90.000 | .467E+04 | -90.000 | 1631.568 | 2.628 | .00209 |
| 106. | 1636.695 | 3.519 | .21E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .492E+04 | -90.000 | 1632.919 | 2.798 | .00231 |
| 107. | 1638.494 | 3.681 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .517E+04 | -90.000 | 1634.352 | 2.952 | .00253 |
| 108. | 1640.371 | 3.822 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .541E+04 | -90.000 | 1635.858 | 3.087 | .00275 |
| 109. | 1642.315 | 3.941 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .564E+04 | -90.000 | 1637.428 | 3.203 | .00298 |
| 110. | 1644.316 | 4.037 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .586E+04 | -90.000 | 1639.053 | 3.298 | .00320 |
| 111. | 1646.363 | 4.111 | .23E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .607E+04 | -90.000 | 1640.722 | 3.373 | .00343 |
| 112. | 1648.443 | 4.160 | .23E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .628E+04 | -90.000 | 1642.425 | 3.427 | .00365 |
| 113. | 1650.544 | 4.187 | .23E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .648E+04 | -90.000 | 1644.152 | 3.460 | .00387 |
| 114. | 1652.656 | 4.189 | .23E-05 | 0.00 | .61E-06 | 0.000 | .40E-05 | 90.000 | .667E+04 | -90.000 | 1645.892 | 3.472 | .00409 |
| 115. | 1654.766 | 4.168 | .23E-05 | 0.00 | .60E-06 | 0.000 | .41E-05 | 90.000 | .685E+04 | -90.000 | 1647.634 | 3.463 | .00431 |
| 116. | 1656.862 | 4.124 | .24E-05 | 0.00 | .58E-06 | 0.000 | .41E-05 | 90.000 | .702E+04 | -90.000 | 1649.368 | 3.433 | .00452 |
| 117. | 1658.932 | 4.057 | .24E-05 | 0.00 | .56E-06 | 0.000 | .41E-05 | 90.000 | .719E+04 | -90.000 | 1651.084 | 3.383 | .00473 |
| 118. | 1660.965 | 3.968 | .24E-05 | 0.00 | .54E-06 | 0.000 | .41E-05 | 90.000 | .735E+04 | -90.000 | 1652.771 | 3.313 | .00493 |
| 119. | 1662.950 | 3.857 | .24E-05 | 0.00 | .51E-06 | 0.000 | .41E-05 | 90.000 | .750E+04 | -90.000 | 1654.421 | 3.225 | .00513 |
| 120. | 1664.875 | 3.725 | .24E-05 | 0.00 | .49E-06 | 0.000 | .41E-05 | 90.000 | .764E+04 | -90.000 | 1656.022 | 3.118 | .00532 |
| 121. | 1666.731 | 3.573 | .24E-05 | 0.00 | .46E-06 | 0.000 | .41E-05 | 90.000 | .777E+04 | -90.000 | 1657.566 | 2.994 | .00550 |
| 122. | 1668.505 | 3.403 | .25E-05 | 0.00 | .44E-06 | 0.000 | .41E-05 | 90.000 | .790E+04 | -90.000 | 1659.045 | 2.853 | .00567 |
| 123. | 1670.190 | 3.214 | .25E-05 | 0.00 | .41E-06 | 0.000 | .41E-05 | 90.000 | .802E+04 | -90.000 | 1660.449 | 2.696 | .00583 |
| 124. | 1671.776 | 3.008 | .25E-05 | 0.00 | .38E-06 | 0.000 | .41E-05 | 90.000 | .812E+04 | -90.000 | 1661.772 | 2.525 | .00598 |
| 125. | 1673.254 | 2.786 | .25E-05 | 0.00 | .34E-06 | 0.000 | .41E-05 | 90.000 | .822E+04 | -90.000 | 1663.005 | 2.340 | .00613 |
| 126. | 1674.616 | 2.550 | .25E-05 | 0.00 | .31E-06 | 0.000 | .41E-05 | 90.000 | .831E+04 | -90.000 | 1664.141 | 2.142 | .00626 |
| 127. | 1675.855 | 2.301 | .25E-05 | 0.00 | .28E-06 | 0.000 | .41E-05 | 90.000 | .839E+04 | -90.000 | 1665.176 | 1.933 | .00637 |
| 128. | 1676.965 | 2.040 | .25E-05 | 0.00 | .25E-06 | 0.000 | .41E-05 | 90.000 | .846E+04 | -90.000 | 1666.102 | 1.714 | .00648 |
| 129. | 1677.938 | 1.768 | .25E-05 | 0.00 | .21E-06 | 0.000 | .41E-05 | 90.000 | .853E+04 | -90.000 | 1666.915 | 1.486 | .00657 |
| 130. | 1678.771 | 1.488 | .25E-05 | 0.00 | .18E-06 | 0.000 | .42E-05 | 90.000 | .858E+04 | -90.000 | 1667.610 | 1.251 | .00665 |
| 131. | 1679.459 | 1.199 | .25E-05 | 0.00 | .14E-06 | 0.000 | .42E-05 | 90.000 | .862E+04 | -90.000 | 1668.184 | 1.008 | .00671 |
| 132. | 1679.997 | .905 | .25E-05 | 0.00 | .11E-06 | 0.000 | .42E-05 | 90.000 | .865E+04 | -90.000 | 1668.634 | .761 | .00676 |
| 133. | 1680.384 | .606 | .25E-05 | 0.00 | .72E-07 | 0.000 | .42E-05 | 90.000 | .868E+04 | -90.000 | 1668.957 | .509 | .00680 |
| 134. | 1680.617 | .304 | .25E-05 | 0.00 | .36E-07 | 0.000 | .42E-05 | 90.000 | .869E+04 | -90.000 | 1669.152 | .255 | .00682 |
| 135. | 1680.695 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .42E-05 | 90.000 | .870E+04 | -90.000 | 1669.217 | 0.000 | .00683 |
| 136. | 1680.617 | -.304 | .25E-05 | 0.00 | .36E-07 | 180.000 | .42E-05 | 90.000 | .869E+04 | -90.000 | 1669.152 | -.255 | .00682 |
| 137. | 1680.384 | -.606 | .25E-05 | 0.00 | .72E-07 | 180.000 | .42E-05 | 90.000 | .868E+04 | -90.000 | 1668.957 | -.509 | .00680 |
| 138. | 1679.997 | -.905 | .25E-05 | 0.00 | .11E-06 | 180.000 | .42E-05 | 90.000 | .865E+04 | -90.000 | 1668.634 | -.761 | .00676 |
| 139. | 1679.459 | -1.199 | .25E-05 | 0.00 | .14E-06 | 180.000 | .42E-05 | 90.000 | .862E+04 | -90.000 | 1668.184 | -1.008 | .00671 |
| 140. | 1678.771 | -1.488 | .25E-05 | 0.00 | .18E-06 | 180.000 | .42E-05 | 90.000 | .858E+04 | -90.000 | 1667.610 | -1.251 | .00665 |
| 141. | 1677.938 | -1.768 | .25E-05 | 0.00 | .21E-06 | 180.000 | .41E-05 | 90.000 | .853E+04 | -90.000 | 1666.915 | -1.486 | .00657 |
| 142. | 1676.965 | -2.040 | .25E-05 | 0.00 | .25E-06 | 180.000 | .41E-05 | 90.000 | .846E+04 | -90.000 | 1666.102 | -1.714 | .00648 |
| 143. | 1675.855 | -2.301 | .25E-05 | 0.00 | .28E-06 | 180.000 | .41E-05 | 90.000 | .839E+04 | -90.000 | 1665.176 | -1.933 | .00637 |
| 144. | 1674.616 | -2.550 | .25E-05 | 0.00 | .31E-06 | 180.000 | .41E-05 | 90.000 | .831E+04 | -90.000 | 1664.141 | -2.142 | .00626 |
| 145. | 1673.254 | -2.786 | .25E-05 | 0.00 | .34E-06 | 180.000 | .41E-05 | 90.000 | .822E+04 | -90.000 | 1663.005 | -2.340 | .00613 |
| 146. | 1671.776 | -3.008 | .25E-05 | 0.00 | .38E-06 | 180.000 | .41E-05 | 90.000 | .812E+04 | -90.000 | 1661.772 | -2.525 | .00598 |
| 147. | 1670.190 | -3.214 | .25E-05 | 0.00 | .41E-06 | 180.000 | .41E-05 | 90.000 | .802E+04 | -90.000 | 1660.449 | -2.696 | .00583 |
| 148. | 1668.505 | -3.403 | .25E-05 | 0.00 | .44E-06 | 180.000 | .41E-05 | 90.000 | .790E+04 | -90.000 | 1659.045 | -2.853 | .00567 |
| 149. | 1666.731 | -3.573 | .24E-05 | 0.00 | .46E-06 | 180.000 | .41E-05 | 90.000 | .777E+04 | -90.000 | 1657.566 | -2.994 | .00550 |

Z-CUT BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1664.875 | -3.725 | .24E-05 | 0.00 | .49E-06 | 180.000 | .41E-05 | 90.000 | .764E+04 | -90.000 | 1656.022 | -3.118 | .00532 |
| 151. | 1662.950 | -3.857 | .24E-05 | 0.00 | .51E-06 | 180.000 | .41E-05 | 90.000 | .750E+04 | -90.000 | 1654.421 | -3.225 | .00513 |
| 152. | 1660.965 | -3.968 | .24E-05 | 0.00 | .54E-06 | 180.000 | .41E-05 | 90.000 | .735E+04 | -90.000 | 1652.771 | -3.313 | .00493 |
| 153. | 1658.932 | -4.057 | .24E-05 | 0.00 | .56E-06 | 180.000 | .41E-05 | 90.000 | .719E+04 | -90.000 | 1651.084 | -3.383 | .00473 |
| 154. | 1656.862 | -4.124 | .24E-05 | 0.00 | .58E-06 | 180.000 | .41E-05 | 90.000 | .702E+04 | -90.000 | 1649.368 | -3.433 | .00452 |
| 155. | 1654.766 | -4.168 | .23E-05 | 0.00 | .60E-06 | 180.000 | .41E-05 | 90.000 | .685E+04 | -90.000 | 1647.634 | -3.463 | .00431 |
| 156. | 1652.656 | -4.189 | .23E-05 | 0.00 | .61E-06 | 180.000 | .40E-05 | 90.000 | .667E+04 | -90.000 | 1645.892 | -3.472 | .00409 |
| 157. | 1650.544 | -4.187 | .23E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .648E+04 | -90.000 | 1644.152 | -3.460 | .00387 |
| 158. | 1648.443 | -4.160 | .23E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .628E+04 | -90.000 | 1642.425 | -3.427 | .00365 |
| 159. | 1646.363 | -4.111 | .23E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .607E+04 | -90.000 | 1640.722 | -3.373 | .00343 |
| 160. | 1644.316 | -4.037 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .586E+04 | -90.000 | 1639.053 | -3.298 | .00320 |
| 161. | 1642.315 | -3.941 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .564E+04 | -90.000 | 1637.428 | -3.203 | .00298 |
| 162. | 1640.371 | -3.822 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .541E+04 | -90.000 | 1635.858 | -3.087 | .00275 |
| 163. | 1638.494 | -3.681 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .517E+04 | -90.000 | 1634.352 | -2.952 | .00253 |
| 164. | 1636.695 | -3.519 | .21E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .492E+04 | -90.000 | 1632.919 | -2.798 | .00231 |
| 165. | 1634.984 | -3.337 | .21E-05 | 0.00 | .63E-06 | 180.000 | .39E-05 | 90.000 | .467E+04 | -90.000 | 1631.568 | -2.628 | .00209 |
| 166. | 1633.370 | -3.138 | .21E-05 | 0.00 | .62E-06 | 180.000 | .39E-05 | 90.000 | .441E+04 | -90.000 | 1630.308 | -2.441 | .00187 |
| 167. | 1631.861 | -2.921 | .21E-05 | 0.00 | .60E-06 | 180.000 | .39E-05 | 90.000 | .414E+04 | -90.000 | 1629.144 | -2.241 | .00166 |
| 168. | 1630.466 | -2.690 | .20E-05 | 0.00 | .58E-06 | 180.000 | .39E-05 | 90.000 | .386E+04 | -90.000 | 1628.084 | -2.029 | .00146 |
| 169. | 1629.189 | -2.446 | .20E-05 | 0.00 | .55E-06 | 180.000 | .39E-05 | 90.000 | .357E+04 | -90.000 | 1627.132 | -1.809 | .00126 |
| 170. | 1628.038 | -2.193 | .20E-05 | 0.00 | .51E-06 | 180.000 | .39E-05 | 90.000 | .327E+04 | -90.000 | 1626.291 | -1.583 | .00107 |
| 171. | 1627.014 | -1.933 | .20E-05 | 0.00 | .46E-06 | 180.000 | .39E-05 | 90.000 | .296E+04 | -90.000 | 1625.563 | -1.356 | .00089 |
| 172. | 1626.122 | -1.669 | .20E-05 | 0.00 | .43E-06 | 180.000 | .39E-05 | 90.000 | .265E+04 | -90.000 | 1624.948 | -1.131 | .00072 |
| 173. | 1625.360 | -1.407 | .20E-05 | 0.00 | .39E-06 | 180.000 | .39E-05 | 90.000 | .233E+04 | -90.000 | 1624.442 | -.914 | .00056 |
| 174. | 1624.727 | -1.151 | .20E-05 | 0.00 | .34E-06 | 180.000 | .39E-05 | 90.000 | .200E+04 | -90.000 | 1624.041 | -.711 | .00042 |
| 175. | 1624.218 | -.906 | .19E-05 | 0.00 | .28E-06 | 180.000 | .39E-05 | 90.000 | .166E+04 | -90.000 | 1623.735 | -.528 | .00030 |
| 176. | 1623.827 | -.679 | .19E-05 | 0.00 | .23E-06 | 180.000 | .38E-05 | 90.000 | .133E+04 | -90.000 | 1623.515 | -.369 | .00019 |
| 177. | 1623.543 | -.475 | .19E-05 | 0.00 | .17E-06 | 180.000 | .38E-05 | 90.000 | .992E+03 | -90.000 | 1623.366 | -.239 | .00011 |
| 178. | 1623.353 | -.297 | .19E-05 | 0.00 | .11E-06 | 180.000 | .38E-05 | 90.000 | .659E+03 | -90.000 | 1623.274 | -.138 | .00005 |
| 179. | 1623.245 | -.141 | .19E-05 | 0.00 | .56E-07 | 180.000 | .38E-05 | 90.000 | .328E+03 | -90.000 | 1623.225 | -.062 | .00001 |
| 180. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |

X-AXIS BOULE  BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | OV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |
| 1. | 1623.211 | 0.000 | .19E-05 | 0.00 | .15E-08 | -90.000 | .38E-05 | 90.000 | .205E+03 | 0.000 | 1623.203 | 0.000 | 0.00000 |
| 2. | 1623.211 | 0.000 | .19E-05 | 0.00 | .29E-08 | -90.000 | .38E-05 | 90.000 | .410E+03 | 0.000 | 1623.180 | 0.000 | .00002 |
| 3. | 1623.212 | 0.000 | .19E-05 | 0.00 | .43E-08 | -90.000 | .38E-05 | 90.000 | .615E+03 | 0.000 | 1623.143 | 0.000 | .00004 |
| 4. | 1623.213 | 0.000 | .19E-05 | 0.00 | .56E-08 | -90.000 | .38E-05 | 90.000 | .819E+03 | 0.000 | 1623.090 | 0.000 | .00008 |
| 5. | 1623.214 | 0.000 | .19E-05 | 0.00 | .69E-08 | -90.000 | .38E-05 | 90.000 | .102E+04 | 0.000 | 1623.024 | 0.000 | .00012 |
| 6. | 1623.216 | 0.000 | .19E-05 | 0.00 | .80E-08 | -90.000 | .39E-05 | 90.000 | .123E+04 | 0.000 | 1622.943 | 0.000 | .00017 |
| 7. | 1623.219 | 0.000 | .19E-05 | 0.00 | .90E-08 | -90.000 | .39E-05 | 90.000 | .143E+04 | 0.000 | 1622.850 | 0.000 | .00023 |
| 8. | 1623.222 | 0.000 | .19E-05 | 0.00 | .99E-08 | -90.000 | .39E-05 | 90.000 | .163E+04 | 0.000 | 1622.743 | 0.000 | .00030 |
| 9. | 1623.227 | 0.000 | .19E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .183E+04 | 0.000 | 1622.626 | 0.000 | .00037 |
| 10. | 1623.232 | 0.000 | .19E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .203E+04 | 0.000 | 1622.497 | 0.000 | .00045 |
| 11. | 1623.239 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .222E+04 | 0.000 | 1622.358 | 0.000 | .00054 |
| 12. | 1623.247 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .242E+04 | 0.000 | 1622.210 | 0.000 | .00064 |
| 13. | 1623.256 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .261E+04 | 0.000 | 1622.053 | 0.000 | .00074 |
| 14. | 1623.267 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .280E+04 | 0.000 | 1621.890 | 0.000 | .00085 |
| 15. | 1623.279 | 0.000 | .20E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .299E+04 | 0.000 | 1621.720 | 0.000 | .00096 |
| 16. | 1623.293 | 0.000 | .20E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .318E+04 | 0.000 | 1621.545 | 0.000 | .00108 |
| 17. | 1623.310 | 0.000 | .20E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .336E+04 | 0.000 | 1621.366 | 0.000 | .00120 |
| 18. | 1623.327 | 0.000 | .20E-05 | 0.00 | .99E-08 | -90.000 | .39E-05 | 90.000 | .354E+04 | 0.000 | 1621.184 | 0.000 | .00132 |
| 19. | 1623.347 | 0.000 | .20E-05 | 0.00 | .91E-08 | -90.000 | .39E-05 | 90.000 | .372E+04 | 0.000 | 1621.000 | 0.000 | .00145 |
| 20. | 1623.369 | 0.000 | .20E-05 | 0.00 | .83E-08 | -90.000 | .39E-05 | 90.000 | .389E+04 | 0.000 | 1620.815 | 0.000 | .00157 |
| 21. | 1623.392 | 0.000 | .20E-05 | 0.00 | .73E-08 | -90.000 | .39E-05 | 90.000 | .406E+04 | 0.000 | 1620.630 | 0.000 | .00170 |
| 22. | 1623.417 | 0.000 | .20E-05 | 0.00 | .63E-08 | -90.000 | .39E-05 | 90.000 | .423E+04 | 0.000 | 1620.445 | 0.000 | .00183 |
| 23. | 1623.443 | 0.000 | .20E-05 | 0.00 | .52E-08 | -90.000 | .39E-05 | 90.000 | .439E+04 | 0.000 | 1620.262 | 0.000 | .00196 |
| 24. | 1623.471 | 0.000 | .20E-05 | 0.00 | .41E-08 | -90.000 | .39E-05 | 90.000 | .455E+04 | 0.000 | 1620.082 | 0.000 | .00209 |
| 25. | 1623.500 | 0.000 | .20E-05 | 0.00 | .30E-08 | -90.000 | .40E-05 | 90.000 | .470E+04 | 0.000 | 1619.905 | 0.000 | .00221 |
| 26. | 1623.531 | 0.000 | .20E-05 | 0.00 | .20E-08 | -90.000 | .40E-05 | 90.000 | .485E+04 | 0.000 | 1619.732 | 0.000 | .00234 |
| 27. | 1623.562 | 0.000 | .20E-05 | 0.00 | .93E-09 | -90.000 | .40E-05 | 90.000 | .499E+04 | 0.000 | 1619.564 | 0.000 | .00246 |
| 28. | 1623.594 | 0.000 | .20E-05 | 0.00 | .43E-10 | 90.000 | .40E-05 | 90.000 | .513E+04 | 0.000 | 1619.401 | 0.000 | .00258 |
| 29. | 1623.626 | 0.000 | .20E-05 | 0.00 | .94E-09 | 90.000 | .40E-05 | 90.000 | .526E+04 | 0.000 | 1619.245 | 0.000 | .00270 |
| 30. | 1623.658 | 0.000 | .20E-05 | 0.00 | .17E-08 | 90.000 | .40E-05 | 90.000 | .539E+04 | 0.000 | 1619.095 | 0.000 | .00281 |
| 31. | 1623.690 | 0.000 | .20E-05 | 0.00 | .24E-08 | 90.000 | .40E-05 | 90.000 | .551E+04 | 0.000 | 1618.953 | 0.000 | .00292 |
| 32. | 1623.722 | 0.000 | .20E-05 | 0.00 | .30E-08 | 90.000 | .40E-05 | 90.000 | .562E+04 | 0.000 | 1618.818 | 0.000 | .00302 |
| 33. | 1623.753 | 0.000 | .20E-05 | 0.00 | .35E-08 | 90.000 | .40E-05 | 90.000 | .573E+04 | 0.000 | 1618.692 | 0.000 | .00312 |
| 34. | 1623.782 | 0.000 | .20E-05 | 0.00 | .38E-08 | 90.000 | .40E-05 | 90.000 | .583E+04 | 0.000 | 1618.575 | 0.000 | .00321 |
| 35. | 1623.811 | 0.000 | .20E-05 | 0.00 | .40E-08 | 90.000 | .40E-05 | 90.000 | .592E+04 | 0.000 | 1618.466 | 0.000 | .00329 |
| 36. | 1623.838 | 0.000 | .20E-05 | 0.00 | .41E-08 | 90.000 | .40E-05 | 90.000 | .600E+04 | 0.000 | 1618.367 | 0.000 | .00337 |
| 37. | 1623.862 | 0.000 | .20E-05 | 0.00 | .40E-08 | 90.000 | .40E-05 | 90.000 | .608E+04 | 0.000 | 1618.277 | 0.000 | .00344 |
| 38. | 1623.885 | 0.000 | .20E-05 | 0.00 | .38E-08 | 90.000 | .40E-05 | 90.000 | .614E+04 | 0.000 | 1618.198 | 0.000 | .00350 |
| 39. | 1623.905 | 0.000 | .20E-05 | 0.00 | .35E-08 | 90.000 | .40E-05 | 90.000 | .620E+04 | 0.000 | 1618.128 | 0.000 | .00356 |
| 40. | 1623.922 | 0.000 | .20E-05 | 0.00 | .31E-08 | 90.000 | .40E-05 | 90.000 | .625E+04 | 0.000 | 1618.069 | 0.000 | .00360 |
| 41. | 1623.937 | 0.000 | .20E-05 | 0.00 | .26E-08 | 90.000 | .40E-05 | 90.000 | .629E+04 | 0.000 | 1618.021 | 0.000 | .00364 |
| 42. | 1623.948 | 0.000 | .20E-05 | 0.00 | .20E-08 | 90.000 | .40E-05 | 90.000 | .632E+04 | 0.000 | 1617.983 | 0.000 | .00367 |
| 43. | 1623.956 | 0.000 | .20E-05 | 0.00 | .14E-08 | 90.000 | .40E-05 | 90.000 | .635E+04 | 0.000 | 1617.956 | 0.000 | .00369 |
| 44. | 1623.961 | 0.000 | .20E-05 | 0.00 | .70E-09 | 90.000 | .40E-05 | 90.000 | .636E+04 | 0.000 | 1617.939 | 0.000 | .00371 |
| 45. | 1623.963 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .40E-05 | 90.000 | .637E+04 | 0.000 | 1617.934 | 0.000 | .00371 |
| 46. | 1623.961 | 0.000 | .20E-05 | 0.00 | .70E-09 | -90.000 | .40E-05 | 90.000 | .636E+04 | 0.000 | 1617.939 | 0.000 | .00371 |
| 47. | 1623.956 | 0.000 | .20E-05 | 0.00 | .14E-08 | -90.000 | .40E-05 | 90.000 | .635E+04 | 0.000 | 1617.956 | 0.000 | .00369 |
| 48. | 1623.948 | 0.000 | .20E-05 | 0.00 | .20E-08 | -90.000 | .40E-05 | 90.000 | .632E+04 | 0.000 | 1617.983 | 0.000 | .00367 |
| 49. | 1623.937 | 0.000 | .20E-05 | 0.00 | .26E-08 | -90.000 | .40E-05 | 90.000 | .629E+04 | 0.000 | 1618.021 | 0.000 | .00364 |

X-AXIS BOULE BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1623.922 | 0.000 | .20E-05 | 0.00 | .31E-08 | -90.000 | .40E-05 | 90.000 | .625E+04 | 0.000 | 1618.069 | 0.000 | .00360 |
| 51. | 1623.905 | 0.000 | .20E-05 | 0.00 | .35E-08 | -90.000 | .40E-05 | 90.000 | .620E+04 | 0.000 | 1618.128 | 0.000 | .00356 |
| 52. | 1623.885 | 0.000 | .20E-05 | 0.00 | .38E-08 | -90.000 | .40E-05 | 90.000 | .614E+04 | 0.000 | 1618.198 | 0.000 | .00350 |
| 53. | 1623.862 | 0.000 | .20E-05 | 0.00 | .40E-08 | -90.000 | .40E-05 | 90.000 | .608E+04 | 0.000 | 1618.277 | 0.000 | .00344 |
| 54. | 1623.838 | 0.000 | .20E-05 | 0.00 | .41E-08 | -90.000 | .40E-05 | 90.000 | .600E+04 | 0.000 | 1618.367 | 0.000 | .00337 |
| 55. | 1623.811 | 0.000 | .20E-05 | 0.00 | .40E-08 | -90.000 | .40E-05 | 90.000 | .592E+04 | 0.000 | 1618.466 | 0.000 | .00329 |
| 56. | 1623.782 | 0.000 | .20E-05 | 0.00 | .38E-08 | -90.000 | .40E-05 | 90.000 | .583E+04 | 0.000 | 1618.575 | 0.000 | .00321 |
| 57. | 1623.753 | 0.000 | .20E-05 | 0.00 | .35E-08 | -90.000 | .40E-05 | 90.000 | .573E+04 | 0.000 | 1618.692 | 0.000 | .00312 |
| 58. | 1623.722 | 0.000 | .20E-05 | 0.00 | .30E-08 | -90.000 | .40E-05 | 90.000 | .562E+04 | 0.000 | 1618.818 | 0.000 | .00302 |
| 59. | 1623.690 | 0.000 | .20E-05 | 0.00 | .24E-08 | -90.000 | .40E-05 | 90.000 | .551E+04 | 0.000 | 1618.953 | 0.000 | .00292 |
| 60. | 1623.658 | 0.000 | .20E-05 | 0.00 | .17E-08 | -90.000 | .40E-05 | 90.000 | .539E+04 | 0.000 | 1619.095 | 0.000 | .00281 |
| 61. | 1623.626 | 0.000 | .20E-05 | 0.00 | .94E-09 | -90.000 | .40E-05 | 90.000 | .526E+04 | 0.000 | 1619.245 | 0.000 | .00270 |
| 62. | 1623.594 | 0.000 | .20E-05 | 0.00 | .43E-10 | -90.000 | .40E-05 | 90.000 | .513E+04 | 0.000 | 1619.401 | 0.000 | .00258 |
| 63. | 1623.562 | 0.000 | .20E-05 | 0.00 | .93E-09 | 90.000 | .40E-05 | 90.000 | .499E+04 | 0.000 | 1619.564 | 0.000 | .00246 |
| 64. | 1623.531 | 0.000 | .20E-05 | 0.00 | .20E-08 | 90.000 | .40E-05 | 90.000 | .485E+04 | 0.000 | 1619.732 | 0.000 | .00234 |
| 65. | 1623.500 | 0.000 | .20E-05 | 0.00 | .30E-08 | 90.000 | .40E-05 | 90.000 | .470E+04 | 0.000 | 1619.905 | 0.000 | .00221 |
| 66. | 1623.471 | 0.000 | .20E-05 | 0.00 | .41E-08 | 90.000 | .39E-05 | 90.000 | .455E+04 | 0.000 | 1620.082 | 0.000 | .00209 |
| 67. | 1623.443 | 0.000 | .20E-05 | 0.00 | .52E-08 | 90.000 | .39E-05 | 90.000 | .439E+04 | 0.000 | 1620.262 | 0.000 | .00196 |
| 68. | 1623.417 | 0.000 | .20E-05 | 0.00 | .63E-08 | 90.000 | .39E-05 | 90.000 | .423E+04 | 0.000 | 1620.445 | 0.000 | .00183 |
| 69. | 1623.392 | 0.000 | .20E-05 | 0.00 | .73E-08 | 90.000 | .39E-05 | 90.000 | .406E+04 | 0.000 | 1620.630 | 0.000 | .00170 |
| 70. | 1623.369 | 0.000 | .20E-05 | 0.00 | .83E-08 | 90.000 | .39E-05 | 90.000 | .389E+04 | 0.000 | 1620.815 | 0.000 | .00157 |
| 71. | 1623.347 | 0.000 | .20E-05 | 0.00 | .91E-08 | 90.000 | .39E-05 | 90.000 | .372E+04 | 0.000 | 1621.000 | 0.000 | .00145 |
| 72. | 1623.327 | 0.000 | .20E-05 | 0.00 | .99E-08 | 90.000 | .39E-05 | 90.000 | .354E+04 | 0.000 | 1621.184 | 0.000 | .00132 |
| 73. | 1623.310 | 0.000 | .20E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .336E+04 | 0.000 | 1621.366 | 0.000 | .00120 |
| 74. | 1623.293 | 0.000 | .20E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .318E+04 | 0.000 | 1621.545 | 0.000 | .00108 |
| 75. | 1623.279 | 0.000 | .20E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .299E+04 | 0.000 | 1621.720 | 0.000 | .00096 |
| 76. | 1623.267 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .280E+04 | 0.000 | 1621.890 | 0.000 | .00085 |
| 77. | 1623.256 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .261E+04 | 0.000 | 1622.053 | 0.000 | .00074 |
| 78. | 1623.247 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .242E+04 | 0.000 | 1622.210 | 0.000 | .00064 |
| 79. | 1623.239 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .222E+04 | 0.000 | 1622.358 | 0.000 | .00054 |
| 80. | 1623.232 | 0.000 | .19E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .203E+04 | 0.000 | 1622.497 | 0.000 | .00045 |
| 81. | 1623.227 | 0.000 | .19E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .183E+04 | 0.000 | 1622.626 | 0.000 | .00037 |
| 82. | 1623.222 | 0.000 | .19E-05 | 0.00 | .99E-08 | 90.000 | .39E-05 | 90.000 | .163E+04 | 0.000 | 1622.743 | 0.000 | .00030 |
| 83. | 1623.219 | 0.000 | .19E-05 | 0.00 | .90E-08 | 90.000 | .39E-05 | 90.000 | .143E+04 | 0.000 | 1622.850 | 0.000 | .00023 |
| 84. | 1623.216 | 0.000 | .19E-05 | 0.00 | .80E-08 | 90.000 | .39E-05 | 90.000 | .123E+04 | 0.000 | 1622.943 | 0.000 | .00017 |
| 85. | 1623.214 | 0.000 | .19E-05 | 0.00 | .69E-08 | 90.000 | .38E-05 | 90.000 | .102E+04 | 0.000 | 1623.024 | 0.000 | .00012 |
| 86. | 1623.213 | 0.000 | .19E-05 | 0.00 | .56E-08 | 90.000 | .38E-05 | 90.000 | .819E+03 | 0.000 | 1623.090 | 0.000 | .00008 |
| 87. | 1623.212 | 0.000 | .19E-05 | 0.00 | .43E-08 | 90.000 | .38E-05 | 90.000 | .615E+03 | 0.000 | 1623.143 | 0.000 | .00004 |
| 88. | 1623.211 | 0.000 | .19E-05 | 0.00 | .29E-08 | 90.000 | .38E-05 | 90.000 | .410E+03 | 0.000 | 1623.180 | 0.000 | .00002 |
| 89. | 1623.211 | 0.000 | .19E-05 | 0.00 | .15E-08 | 90.000 | .38E-05 | 90.000 | .205E+03 | 0.000 | 1623.203 | 0.000 | 0.00000 |
| 90. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |
| 91. | 1623.211 | 0.000 | .19E-05 | 0.00 | .15E-08 | -90.000 | .38E-05 | 90.000 | .205E+03 | 180.000 | 1623.203 | 0.000 | 0.00000 |
| 92. | 1623.211 | 0.000 | .19E-05 | 0.00 | .29E-08 | -90.000 | .38E-05 | 90.000 | .410E+03 | 180.000 | 1623.180 | 0.000 | .00002 |
| 93. | 1623.212 | 0.000 | .19E-05 | 0.00 | .43E-08 | -90.000 | .38E-05 | 90.000 | .615E+03 | 180.000 | 1623.143 | 0.000 | .00004 |
| 94. | 1623.213 | 0.000 | .19E-05 | 0.00 | .56E-08 | -90.000 | .38E-05 | 90.000 | .819E+03 | 180.000 | 1623.090 | 0.000 | .00008 |
| 95. | 1623.214 | 0.000 | .19E-05 | 0.00 | .69E-08 | -90.000 | .38E-05 | 90.000 | .102E+04 | 180.000 | 1623.024 | 0.000 | .00012 |
| 96. | 1623.216 | 0.000 | .19E-05 | 0.00 | .80E-08 | -90.000 | .39E-05 | 90.000 | .123E+04 | 180.000 | 1622.943 | 0.000 | .00017 |
| 97. | 1623.219 | 0.000 | .19E-05 | 0.00 | .90E-08 | -90.000 | .39E-05 | 90.000 | .143E+04 | 180.000 | 1622.850 | 0.000 | .00023 |
| 98. | 1623.222 | 0.000 | .19E-05 | 0.00 | .99E-08 | -90.000 | .39E-05 | 90.000 | .163E+04 | 180.000 | 1622.743 | 0.000 | .00030 |
| 99. | 1623.227 | 0.000 | .19E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .183E+04 | 180.000 | 1622.626 | 0.000 | .00037 |

X-AXIS BOULE BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1623.232 | 0.000 | .19E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .203E+04 | 180.000 | 1622.497 | 0.000 | .00045 |
| 101. | 1623.239 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .222E+04 | 180.000 | 1622.358 | 0.000 | .00054 |
| 102. | 1623.247 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .242E+04 | 180.000 | 1622.210 | 0.000 | .00064 |
| 103. | 1623.256 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .261E+04 | 180.000 | 1622.053 | 0.000 | .00074 |
| 104. | 1623.267 | 0.000 | .19E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .280E+04 | 180.000 | 1621.890 | 0.000 | .00085 |
| 105. | 1623.279 | 0.000 | .20E-05 | 0.00 | .12E-07 | -90.000 | .39E-05 | 90.000 | .299E+04 | 180.000 | 1621.720 | 0.000 | .00096 |
| 106. | 1623.293 | 0.000 | .20E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .318E+04 | 180.000 | 1621.545 | 0.000 | .00108 |
| 107. | 1623.310 | 0.000 | .20E-05 | 0.00 | .11E-07 | -90.000 | .39E-05 | 90.000 | .336E+04 | 180.000 | 1621.366 | 0.000 | .00120 |
| 108. | 1623.327 | 0.000 | .20E-05 | 0.00 | .99E-08 | -90.000 | .39E-05 | 90.000 | .354E+04 | 180.000 | 1621.184 | 0.000 | .00132 |
| 109. | 1623.347 | 0.000 | .20E-05 | 0.00 | .91E-08 | -90.000 | .39E-05 | 90.000 | .372E+04 | 180.000 | 1621.000 | 0.000 | .00145 |
| 110. | 1623.369 | 0.000 | .20E-05 | 0.00 | .83E-08 | -90.000 | .39E-05 | 90.000 | .389E+04 | 180.000 | 1620.815 | 0.000 | .00157 |
| 111. | 1623.392 | 0.000 | .20E-05 | 0.00 | .73E-08 | -90.000 | .39E-05 | 90.000 | .406E+04 | 180.000 | 1620.630 | 0.000 | .00170 |
| 112. | 1623.417 | 0.000 | .20E-05 | 0.00 | .63E-08 | -90.000 | .39E-05 | 90.000 | .423E+04 | 180.000 | 1620.445 | 0.000 | .00183 |
| 113. | 1623.443 | 0.000 | .20E-05 | 0.00 | .52E-08 | -90.000 | .39E-05 | 90.000 | .439E+04 | 180.000 | 1620.262 | 0.000 | .00196 |
| 114. | 1623.471 | 0.000 | .20E-05 | 0.00 | .41E-08 | -90.000 | .39E-05 | 90.000 | .455E+04 | 180.000 | 1620.082 | 0.000 | .00209 |
| 115. | 1623.500 | 0.000 | .20E-05 | 0.00 | .30E-08 | -90.000 | .40E-05 | 90.000 | .470E+04 | 180.000 | 1619.905 | 0.000 | .00221 |
| 116. | 1623.531 | 0.000 | .20E-05 | 0.00 | .20E-08 | -90.000 | .40E-05 | 90.000 | .485E+04 | 180.000 | 1619.732 | 0.000 | .00234 |
| 117. | 1623.562 | 0.000 | .20E-05 | 0.00 | .93E-09 | -90.000 | .40E-05 | 90.000 | .499E+04 | 180.000 | 1619.564 | 0.000 | .00246 |
| 118. | 1623.594 | 0.000 | .20E-05 | 0.00 | .43E-10 | 90.000 | .40E-05 | 90.000 | .513E+04 | 180.000 | 1619.401 | 0.000 | .00258 |
| 119. | 1623.626 | 0.000 | .20E-05 | 0.00 | .94E-09 | 90.000 | .40E-05 | 90.000 | .526E+04 | 180.000 | 1619.245 | 0.000 | .00270 |
| 120. | 1623.658 | 0.000 | .20E-05 | 0.00 | .17E-08 | 90.000 | .40E-05 | 90.000 | .539E+04 | -180.000 | 1619.095 | 0.000 | .00281 |
| 121. | 1623.690 | 0.000 | .20E-05 | 0.00 | .24E-08 | 90.000 | .40E-05 | 90.000 | .551E+04 | -180.000 | 1618.953 | 0.000 | .00292 |
| 122. | 1623.722 | 0.000 | .20E-05 | 0.00 | .30E-08 | 90.000 | .40E-05 | 90.000 | .562E+04 | -180.000 | 1618.818 | 0.000 | .00302 |
| 123. | 1623.753 | 0.000 | .20E-05 | 0.00 | .35E-08 | 90.000 | .40E-05 | 90.000 | .573E+04 | 180.000 | 1618.692 | 0.000 | .00312 |
| 124. | 1623.782 | 0.000 | .20E-05 | 0.00 | .38E-08 | 90.000 | .40E-05 | 90.000 | .583E+04 | 180.000 | 1618.575 | 0.000 | .00321 |
| 125. | 1623.811 | 0.000 | .20E-05 | 0.00 | .40E-08 | 90.000 | .40E-05 | 90.000 | .592E+04 | 180.000 | 1618.466 | 0.000 | .00329 |
| 126. | 1623.838 | 0.000 | .20E-05 | 0.00 | .41E-08 | 90.000 | .40E-05 | 90.000 | .600E+04 | 180.000 | 1618.367 | 0.000 | .00337 |
| 127. | 1623.862 | 0.000 | .20E-05 | 0.00 | .40E-08 | 90.000 | .40E-05 | 90.000 | .608E+04 | 180.000 | 1618.277 | 0.000 | .00344 |
| 128. | 1623.885 | 0.000 | .20E-05 | 0.00 | .38E-08 | 90.000 | .40E-05 | 90.000 | .614E+04 | 180.000 | 1618.198 | 0.000 | .00350 |
| 129. | 1623.905 | 0.000 | .20E-05 | 0.00 | .35E-08 | 90.000 | .40E-05 | 90.000 | .620E+04 | 180.000 | 1618.128 | 0.000 | .00356 |
| 130. | 1623.922 | 0.000 | .20E-05 | 0.00 | .31E-08 | 90.000 | .40E-05 | 90.000 | .625E+04 | 180.000 | 1618.069 | 0.000 | .00360 |
| 131. | 1623.937 | 0.000 | .20E-05 | 0.00 | .26E-08 | 90.000 | .40E-05 | 90.000 | .629E+04 | 180.000 | 1618.021 | 0.000 | .00364 |
| 132. | 1623.948 | 0.000 | .20E-05 | 0.00 | .20E-08 | 90.000 | .40E-05 | 90.000 | .632E+04 | 180.000 | 1617.983 | 0.000 | .00367 |
| 133. | 1623.956 | 0.000 | .20E-05 | 0.00 | .14E-08 | 90.000 | .40E-05 | 90.000 | .635E+04 | 180.000 | 1617.956 | 0.000 | .00369 |
| 134. | 1623.961 | 0.000 | .20E-05 | 0.00 | .70E-09 | 90.000 | .40E-05 | 90.000 | .636E+04 | -180.000 | 1617.939 | 0.000 | .00371 |
| 135. | 1623.963 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .40E-05 | 90.000 | .637E+04 | -180.000 | 1617.934 | 0.000 | .00371 |
| 136. | 1623.961 | 0.000 | .20E-05 | 0.00 | .70E-09 | -90.000 | .40E-05 | 90.000 | .636E+04 | -180.000 | 1617.939 | 0.000 | .00371 |
| 137. | 1623.956 | 0.000 | .20E-05 | 0.00 | .14E-08 | -90.000 | .40E-05 | 90.000 | .635E+04 | 180.000 | 1617.956 | 0.000 | .00369 |
| 138. | 1623.948 | 0.000 | .20E-05 | 0.00 | .20E-08 | -90.000 | .40E-05 | 90.000 | .632E+04 | 180.000 | 1617.983 | 0.000 | .00367 |
| 139. | 1623.937 | 0.000 | .20E-05 | 0.00 | .26E-08 | -90.000 | .40E-05 | 90.000 | .629E+04 | -180.000 | 1618.021 | 0.000 | .00364 |
| 140. | 1623.922 | 0.000 | .20E-05 | 0.00 | .31E-08 | -90.000 | .40E-05 | 90.000 | .625E+04 | 180.000 | 1618.069 | 0.000 | .00360 |
| 141. | 1623.905 | 0.000 | .20E-05 | 0.00 | .35E-08 | -90.000 | .40E-05 | 90.000 | .620E+04 | -180.000 | 1618.128 | 0.000 | .00356 |
| 142. | 1623.885 | 0.000 | .20E-05 | 0.00 | .38E-08 | -90.000 | .40E-05 | 90.000 | .614E+04 | 180.000 | 1618.198 | 0.000 | .00350 |
| 143. | 1623.862 | 0.000 | .20E-05 | 0.00 | .40E-08 | -90.000 | .40E-05 | 90.000 | .608E+04 | 180.000 | 1618.277 | 0.000 | .00344 |
| 144. | 1623.838 | 0.000 | .20E-05 | 0.00 | .41E-08 | -90.000 | .40E-05 | 90.000 | .600E+04 | -180.000 | 1618.367 | 0.000 | .00337 |
| 145. | 1623.811 | 0.000 | .20E-05 | 0.00 | .40E-08 | -90.000 | .40E-05 | 90.000 | .592E+04 | -180.000 | 1618.466 | 0.000 | .00329 |
| 146. | 1623.782 | 0.000 | .20E-05 | 0.00 | .38E-08 | -90.000 | .40E-05 | 90.000 | .583E+04 | 180.000 | 1618.575 | 0.000 | .00321 |
| 147. | 1623.753 | 0.000 | .20E-05 | 0.00 | .35E-08 | -90.000 | .40E-05 | 90.000 | .573E+04 | 180.000 | 1618.692 | 0.000 | .00312 |
| 148. | 1623.722 | 0.000 | .20E-05 | 0.00 | .30E-08 | -90.000 | .40E-05 | 90.000 | .562E+04 | -180.000 | 1618.818 | 0.000 | .00302 |
| 149. | 1623.690 | 0.000 | .20E-05 | 0.00 | .24E-08 | -90.000 | .40E-05 | 90.000 | .551E+04 | -180.000 | 1618.953 | 0.000 | .00292 |

x-AXIS BOULE BISMUTH GERMANIUM OXIDE (KRAUT ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1623.658 | 0.000 | .20E-05 | 0.00 | .17E-08 | -90.000 | .40E-05 | 90.000 | .539E+04 | 180.000 | 1619.095 | 0.000 | .00281 |
| 151. | 1623.626 | 0.000 | .20E-05 | 0.00 | .94E-09 | -90.000 | .40E-05 | 90.000 | .526E+04 | 180.000 | 1619.245 | 0.000 | .00270 |
| 152. | 1623.594 | 0.000 | .20E-05 | 0.00 | .43E-10 | -90.000 | .40E-05 | 90.000 | .513E+04 | 180.000 | 1619.401 | 0.000 | .00258 |
| 153. | 1623.562 | 0.000 | .20E-05 | 0.00 | .93E-09 | 90.000 | .40E-05 | 90.000 | .499E+04 | 180.000 | 1619.564 | 0.000 | .00246 |
| 154. | 1623.531 | 0.000 | .20E-05 | 0.00 | .20E-08 | 90.000 | .40E-05 | 90.000 | .485E+04 | 180.000 | 1619.732 | 0.000 | .00234 |
| 155. | 1623.500 | 0.000 | .20E-05 | 0.00 | .30E-08 | 90.000 | .40E-05 | 90.000 | .470E+04 | 180.000 | 1619.905 | 0.000 | .00221 |
| 156. | 1623.471 | 0.000 | .20E-05 | 0.00 | .41E-08 | 90.000 | .39E-05 | 90.000 | .455E+04 | 180.000 | 1620.082 | 0.000 | .00209 |
| 157. | 1623.443 | 0.000 | .20E-05 | 0.00 | .52E-08 | 90.000 | .39E-05 | 90.000 | .439E+04 | 180.000 | 1620.262 | 0.000 | .00196 |
| 158. | 1623.417 | 0.000 | .20E-05 | 0.00 | .63E-08 | 90.000 | .39E-05 | 90.000 | .423E+04 | 180.000 | 1620.445 | 0.000 | .00183 |
| 159. | 1623.392 | 0.000 | .20E-05 | 0.00 | .73E-08 | 90.000 | .39E-05 | 90.000 | .406E+04 | 180.000 | 1620.630 | 0.000 | .00170 |
| 160. | 1623.369 | 0.000 | .20E-05 | 0.00 | .83E-08 | 90.000 | .39E-05 | 90.000 | .389E+04 | 180.000 | 1620.815 | 0.000 | .00157 |
| 161. | 1623.347 | 0.000 | .20E-05 | 0.00 | .91E-08 | 90.000 | .39E-05 | 90.000 | .372E+04 | 180.000 | 1621.000 | 0.000 | .00145 |
| 162. | 1623.327 | 0.000 | .20E-05 | 0.00 | .99E-08 | 90.000 | .39E-05 | 90.000 | .354E+04 | 180.000 | 1621.184 | 0.000 | .00132 |
| 163. | 1623.310 | 0.000 | .20E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .336E+04 | 180.000 | 1621.366 | 0.000 | .00120 |
| 164. | 1623.293 | 0.000 | .20E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .318E+04 | 180.000 | 1621.545 | 0.000 | .00108 |
| 165. | 1623.279 | 0.000 | .20E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .299E+04 | 180.000 | 1621.720 | 0.000 | .00096 |
| 166. | 1623.267 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .280E+04 | 180.000 | 1621.890 | 0.000 | .00085 |
| 167. | 1623.256 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .261E+04 | 180.000 | 1622.053 | 0.000 | .00074 |
| 168. | 1623.247 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .242E+04 | 180.000 | 1622.210 | 0.000 | .00064 |
| 169. | 1623.239 | 0.000 | .19E-05 | 0.00 | .12E-07 | 90.000 | .39E-05 | 90.000 | .222E+04 | 180.000 | 1622.358 | 0.000 | .00054 |
| 170. | 1623.232 | 0.000 | .19E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .203E+04 | 180.000 | 1622.497 | 0.000 | .00045 |
| 171. | 1623.227 | 0.000 | .19E-05 | 0.00 | .11E-07 | 90.000 | .39E-05 | 90.000 | .183E+04 | 180.000 | 1622.626 | 0.000 | .00037 |
| 172. | 1623.222 | 0.000 | .19E-05 | 0.00 | .99E-08 | 90.000 | .39E-05 | 90.000 | .163E+04 | 180.000 | 1622.743 | 0.000 | .00030 |
| 173. | 1623.219 | 0.000 | .19E-05 | 0.00 | .90E-08 | 90.000 | .39E-05 | 90.000 | .143E+04 | 180.000 | 1622.850 | 0.000 | .00023 |
| 174. | 1623.216 | 0.000 | .19E-05 | 0.00 | .80E-08 | 90.000 | .39E-05 | 90.000 | .123E+04 | 180.000 | 1622.943 | 0.000 | .00017 |
| 175. | 1623.214 | 0.000 | .19E-05 | 0.00 | .69E-08 | 90.000 | .38E-05 | 90.000 | .102E+04 | 180.000 | 1623.024 | 0.000 | .00012 |
| 176. | 1623.213 | 0.000 | .19E-05 | 0.00 | .56E-08 | 90.000 | .38E-05 | 90.000 | .819E+03 | 180.000 | 1623.090 | 0.000 | .00008 |
| 177. | 1623.212 | 0.000 | .19E-05 | 0.00 | .43E-08 | 90.000 | .38E-05 | 90.000 | .615E+03 | 180.000 | 1623.143 | 0.000 | .00004 |
| 178. | 1623.211 | 0.000 | .19E-05 | 0.00 | .29E-08 | 90.000 | .38E-05 | 90.000 | .410E+03 | 180.000 | 1623.180 | 0.000 | .00002 |
| 179. | 1623.211 | 0.000 | .19E-05 | 0.00 | .15E-08 | 90.000 | .38E-05 | 90.000 | .205E+03 | 180.000 | 1623.203 | 0.000 | 0.00000 |
| 180. | 1623.210 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .38E-05 | 90.000 | 0. | 0.000 | 1623.210 | 0.000 | 0.00000 |

X-AXIS BOULE  CADMIUM SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1728.956 | 0.000 | .29E-05 | 0.00 | 0. | 0.000 | .53E-05 | 90.000 | .100E+05 | -90.000 | 1724.969 | 0.000 | .00236 |
| 1. | 1728.942 | 0.000 | .29E-05 | 0.00 | .18E-07 | 90.000 | .53E-05 | 90.000 | .100E+05 | -90.000 | 1724.857 | 0.000 | .00236 |
| 2. | 1728.901 | 0.000 | .29E-05 | 0.00 | .35E-07 | 90.000 | .53E-05 | 90.000 | .100E+05 | -90.000 | 1724.822 | 0.000 | .00236 |
| 3. | 1728.832 | 0.000 | .29E-05 | 0.00 | .53E-07 | 90.000 | .53E-05 | 90.000 | .100E+05 | -90.000 | 1724.764 | 0.000 | .00235 |
| 4. | 1728.736 | 0.000 | .29E-05 | 0.00 | .71E-07 | 90.000 | .53E-05 | 90.000 | .100E+05 | -90.000 | 1724.683 | 0.000 | .00234 |
| 5. | 1728.614 | 0.000 | .29E-05 | 0.00 | .88E-07 | 90.000 | .53E-05 | 90.000 | .998E+04 | -90.000 | 1724.580 | 0.000 | .00233 |
| 6. | 1728.467 | 0.000 | .29E-05 | 0.00 | .10E-06 | 90.000 | .53E-05 | 90.000 | .995E+04 | -90.000 | 1724.455 | 0.000 | .00232 |
| 7. | 1728.294 | 0.000 | .29E-05 | 0.00 | .12E-06 | 90.000 | .53E-05 | 90.000 | .992E+04 | -90.000 | 1724.309 | 0.000 | .00231 |
| 8. | 1728.098 | 0.000 | .29E-05 | 0.00 | .14E-06 | 90.000 | .53E-05 | 90.000 | .988E+04 | -90.000 | 1724.143 | 0.000 | .00229 |
| 9. | 1727.879 | 0.000 | .29E-05 | 0.00 | .16E-06 | 90.000 | .53E-05 | 90.000 | .984E+04 | -90.000 | 1723.958 | 0.000 | .00227 |
| 10. | 1727.639 | 0.000 | .29E-05 | 0.00 | .17E-06 | 90.000 | .54E-05 | 90.000 | .979E+04 | -90.000 | 1723.754 | 0.000 | .00225 |
| 11. | 1727.380 | 0.000 | .29E-05 | 0.00 | .19E-06 | 90.000 | .54E-05 | 90.000 | .974E+04 | -90.000 | 1723.534 | 0.000 | .00223 |
| 12. | 1727.101 | 0.000 | .29E-05 | 0.00 | .20E-06 | 90.000 | .54E-05 | 90.000 | .969E+04 | -90.000 | 1723.297 | 0.000 | .00220 |
| 13. | 1726.806 | 0.000 | .29E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .963E+04 | -90.000 | 1723.046 | 0.000 | .00218 |
| 14. | 1726.495 | 0.000 | .30E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .958E+04 | -90.000 | 1722.781 | 0.000 | .00215 |
| 15. | 1726.171 | 0.000 | .30E-05 | 0.00 | .25E-06 | 90.000 | .54E-05 | 90.000 | .951E+04 | -90.000 | 1722.504 | 0.000 | .00212 |
| 16. | 1725.834 | 0.000 | .30E-05 | 0.00 | .26E-06 | 90.000 | .54E-05 | 90.000 | .945E+04 | -90.000 | 1722.217 | 0.000 | .00210 |
| 17. | 1725.487 | 0.000 | .30E-05 | 0.00 | .27E-06 | 90.000 | .54E-05 | 90.000 | .939E+04 | -90.000 | 1721.921 | 0.000 | .00207 |
| 18. | 1725.132 | 0.000 | .30E-05 | 0.00 | .29E-06 | 90.000 | .54E-05 | 90.000 | .932E+04 | -90.000 | 1721.617 | 0.000 | .00204 |
| 19. | 1724.769 | 0.000 | .30E-05 | 0.00 | .30E-06 | 90.000 | .54E-05 | 90.000 | .925E+04 | -90.000 | 1721.306 | 0.000 | .00201 |
| 20. | 1724.401 | 0.000 | .30E-05 | 0.00 | .31E-06 | 90.000 | .54E-05 | 90.000 | .918E+04 | -90.000 | 1720.992 | 0.000 | .00198 |
| 21. | 1724.030 | 0.000 | .31E-05 | 0.00 | .33E-06 | 90.000 | .55E-05 | 90.000 | .911E+04 | -90.000 | 1720.674 | 0.000 | .00195 |
| 22. | 1723.657 | 0.000 | .31E-05 | 0.00 | .34E-06 | 90.000 | .55E-05 | 90.000 | .904E+04 | -90.000 | 1720.354 | 0.000 | .00192 |
| 23. | 1723.283 | 0.000 | .31E-05 | 0.00 | .35E-06 | 90.000 | .55E-05 | 90.000 | .897E+04 | -90.000 | 1720.034 | 0.000 | .00189 |
| 24. | 1722.911 | 0.000 | .31E-05 | 0.00 | .37E-06 | 90.000 | .55E-05 | 90.000 | .889E+04 | -90.000 | 1719.716 | 0.000 | .00185 |
| 25. | 1722.542 | 0.000 | .31E-05 | 0.00 | .38E-06 | 90.000 | .55E-05 | 90.000 | .882E+04 | -90.000 | 1719.401 | 0.000 | .00182 |
| 26. | 1722.178 | 0.000 | .31E-05 | 0.00 | .39E-06 | 90.000 | .55E-05 | 90.000 | .875E+04 | -90.000 | 1719.090 | 0.000 | .00179 |
| 27. | 1721.820 | 0.000 | .31E-05 | 0.00 | .40E-06 | 90.000 | .55E-05 | 90.000 | .867E+04 | -90.000 | 1718.785 | 0.000 | .00176 |
| 28. | 1721.470 | 0.000 | .31E-05 | 0.00 | .42E-06 | 90.000 | .55E-05 | 90.000 | .860E+04 | -90.000 | 1718.487 | 0.000 | .00173 |
| 29. | 1721.129 | 0.000 | .32E-05 | 0.00 | .43E-06 | 90.000 | .56E-05 | 90.000 | .853E+04 | -90.000 | 1718.199 | 0.000 | .00170 |
| 30. | 1720.799 | 0.000 | .32E-05 | 0.00 | .44E-06 | 90.000 | .56E-05 | 90.000 | .846E+04 | -90.000 | 1717.920 | 0.000 | .00167 |
| 31. | 1720.481 | 0.000 | .32E-05 | 0.00 | .45E-06 | 90.000 | .56E-05 | 90.000 | .838E+04 | -90.000 | 1717.653 | 0.000 | .00164 |
| 32. | 1720.176 | 0.000 | .32E-05 | 0.00 | .47E-06 | 90.000 | .56E-05 | 90.000 | .831E+04 | -90.000 | 1717.399 | 0.000 | .00161 |
| 33. | 1719.887 | 0.000 | .32E-05 | 0.00 | .48E-06 | 90.000 | .56E-05 | 90.000 | .824E+04 | -90.000 | 1717.160 | 0.000 | .00159 |
| 34. | 1719.613 | 0.000 | .32E-05 | 0.00 | .49E-06 | 90.000 | .56E-05 | 90.000 | .817E+04 | -90.000 | 1716.936 | 0.000 | .00156 |
| 35. | 1719.357 | 0.000 | .32E-05 | 0.00 | .51E-06 | 90.000 | .56E-05 | 90.000 | .809E+04 | -90.000 | 1716.728 | 0.000 | .00153 |
| 36. | 1719.119 | 0.000 | .33E-05 | 0.00 | .52E-06 | 90.000 | .56E-05 | 90.000 | .802E+04 | -90.000 | 1716.538 | 0.000 | .00150 |
| 37. | 1718.900 | 0.000 | .33E-05 | 0.00 | .53E-06 | 90.000 | .57E-05 | 90.000 | .795E+04 | -90.000 | 1716.367 | 0.000 | .00147 |
| 38. | 1718.701 | 0.000 | .33E-05 | 0.00 | .55E-06 | 90.000 | .57E-05 | 90.000 | .788E+04 | -90.000 | 1716.216 | 0.000 | .00145 |
| 39. | 1718.524 | 0.000 | .33E-05 | 0.00 | .56E-06 | 90.000 | .57E-05 | 90.000 | .781E+04 | -90.000 | 1716.086 | 0.000 | .00142 |
| 40. | 1718.369 | 0.000 | .33E-05 | 0.00 | .57E-06 | 90.000 | .57E-05 | 90.000 | .773E+04 | -90.000 | 1715.978 | 0.000 | .00139 |
| 41. | 1718.237 | 0.000 | .33E-05 | 0.00 | .59E-06 | 90.000 | .57E-05 | 90.000 | .766E+04 | -90.000 | 1715.892 | 0.000 | .00136 |
| 42. | 1718.129 | 0.000 | .33E-05 | 0.00 | .60E-06 | 90.000 | .57E-05 | 90.000 | .759E+04 | -90.000 | 1715.829 | 0.000 | .00134 |
| 43. | 1718.045 | 0.000 | .34E-05 | 0.00 | .61E-06 | 90.000 | .57E-05 | 90.000 | .751E+04 | -90.000 | 1715.791 | 0.000 | .00131 |
| 44. | 1717.985 | 0.000 | .34E-05 | 0.00 | .63E-06 | 90.000 | .57E-05 | 90.000 | .744E+04 | -90.000 | 1715.777 | 0.000 | .00129 |
| 45. | 1717.951 | 0.000 | .34E-05 | 0.00 | .64E-06 | 90.000 | .57E-05 | 90.000 | .736E+04 | -90.000 | 1715.788 | 0.000 | .00126 |
| 46. | 1717.942 | 0.000 | .34E-05 | 0.00 | .65E-06 | 90.000 | .57E-05 | 90.000 | .728E+04 | -90.000 | 1715.825 | 0.000 | .00123 |
| 47. | 1717.959 | 0.000 | .34E-05 | 0.00 | .67E-06 | 90.000 | .57E-05 | 90.000 | .721E+04 | -90.000 | 1715.888 | 0.000 | .00121 |
| 48. | 1718.002 | 0.000 | .34E-05 | 0.00 | .68E-06 | 90.000 | .58E-05 | 90.000 | .713E+04 | -90.000 | 1715.976 | 0.000 | .00118 |
| 49. | 1718.071 | 0.000 | .34E-05 | 0.00 | .69E-06 | 90.000 | .58E-05 | 90.000 | .705E+04 | -90.000 | 1716.091 | 0.000 | .00115 |

X-AXIS BOULE CADMIUM SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1718.166 | 0.000 | .34E-05 | 0.00 | .70E-06 | 90.000 | .58E-05 | 90.000 | .696E+04 | -90.000 | 1716.232 | 0.000 | .00113 |
| 51. | 1718.287 | 0.000 | .34E-05 | 0.00 | .71E-06 | 90.000 | .58E-05 | 90.000 | .688E+04 | -90.000 | 1716.399 | 0.000 | .00110 |
| 52. | 1718.433 | 0.000 | .34E-05 | 0.00 | .72E-06 | 90.000 | .58E-05 | 90.000 | .679E+04 | -90.000 | 1716.592 | 0.000 | .00107 |
| 53. | 1718.605 | 0.000 | .34E-05 | 0.00 | .73E-06 | 90.000 | .58E-05 | 90.000 | .670E+04 | -90.000 | 1716.811 | 0.000 | .00104 |
| 54. | 1718.801 | 0.000 | .34E-05 | 0.00 | .74E-06 | 90.000 | .58E-05 | 90.000 | .661E+04 | -90.000 | 1717.055 | 0.000 | .00102 |
| 55. | 1719.022 | 0.000 | .34E-05 | 0.00 | .75E-06 | 90.000 | .58E-05 | 90.000 | .651E+04 | -90.000 | 1717.324 | 0.000 | .00099 |
| 56. | 1719.266 | 0.000 | .35E-05 | 0.00 | .75E-06 | 90.000 | .58E-05 | 90.000 | .641E+04 | -90.000 | 1717.617 | 0.000 | .00096 |
| 57. | 1719.533 | 0.000 | .35E-05 | 0.00 | .76E-06 | 90.000 | .58E-05 | 90.000 | .631E+04 | -90.000 | 1717.934 | 0.000 | .00093 |
| 58. | 1719.821 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .621E+04 | -90.000 | 1718.273 | 0.000 | .00090 |
| 59. | 1720.131 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .610E+04 | -90.000 | 1718.634 | 0.000 | .00087 |
| 60. | 1720.459 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .599E+04 | -90.000 | 1719.015 | 0.000 | .00084 |
| 61. | 1720.807 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .587E+04 | -90.000 | 1719.415 | 0.000 | .00081 |
| 62. | 1721.171 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .575E+04 | -90.000 | 1719.834 | 0.000 | .00078 |
| 63. | 1721.551 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .562E+04 | -90.000 | 1720.269 | 0.000 | .00074 |
| 64. | 1721.945 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .549E+04 | -90.000 | 1720.718 | 0.000 | .00071 |
| 65. | 1722.351 | 0.000 | .35E-05 | 0.00 | .77E-06 | 90.000 | .58E-05 | 90.000 | .536E+04 | -90.000 | 1721.181 | 0.000 | .00068 |
| 66. | 1722.767 | 0.000 | .35E-05 | 0.00 | .76E-06 | 90.000 | .58E-05 | 90.000 | .521E+04 | -90.000 | 1721.656 | 0.000 | .00064 |
| 67. | 1723.192 | 0.000 | .35E-05 | 0.00 | .75E-06 | 90.000 | .58E-05 | 90.000 | .507E+04 | -90.000 | 1722.140 | 0.000 | .00061 |
| 68. | 1723.624 | 0.000 | .35E-05 | 0.00 | .74E-06 | 90.000 | .58E-05 | 90.000 | .491E+04 | -90.000 | 1722.631 | 0.000 | .00058 |
| 69. | 1724.060 | 0.000 | .35E-05 | 0.00 | .73E-06 | 90.000 | .58E-05 | 90.000 | .476E+04 | -90.000 | 1723.127 | 0.000 | .00054 |
| 70. | 1724.498 | 0.000 | .35E-05 | 0.00 | .71E-06 | 90.000 | .58E-05 | 90.000 | .459E+04 | -90.000 | 1723.626 | 0.000 | .00051 |
| 71. | 1724.936 | 0.000 | .35E-05 | 0.00 | .70E-06 | 90.000 | .58E-05 | 90.000 | .442E+04 | -90.000 | 1724.126 | 0.000 | .00047 |
| 72. | 1725.372 | 0.000 | .35E-05 | 0.00 | .68E-06 | 90.000 | .58E-05 | 90.000 | .424E+04 | -90.000 | 1724.623 | 0.000 | .00043 |
| 73. | 1725.804 | 0.000 | .35E-05 | 0.00 | .66E-06 | 90.000 | .58E-05 | 90.000 | .406E+04 | -90.000 | 1725.116 | 0.000 | .00040 |
| 74. | 1726.228 | 0.000 | .35E-05 | 0.00 | .63E-06 | 90.000 | .58E-05 | 90.000 | .386E+04 | -90.000 | 1725.601 | 0.000 | .00036 |
| 75. | 1726.643 | 0.000 | .35E-05 | 0.00 | .61E-06 | 90.000 | .58E-05 | 90.000 | .367E+04 | -90.000 | 1726.077 | 0.000 | .00033 |
| 76. | 1727.046 | 0.000 | .35E-05 | 0.00 | .58E-06 | 90.000 | .58E-05 | 90.000 | .346E+04 | -90.000 | 1726.540 | 0.000 | .00029 |
| 77. | 1727.434 | 0.000 | .35E-05 | 0.00 | .55E-06 | 90.000 | .58E-05 | 90.000 | .325E+04 | -90.000 | 1726.987 | 0.000 | .00026 |
| 78. | 1727.806 | 0.000 | .35E-05 | 0.00 | .52E-06 | 90.000 | .58E-05 | 90.000 | .303E+04 | -90.000 | 1727.415 | 0.000 | .00023 |
| 79. | 1728.158 | 0.000 | .35E-05 | 0.00 | .48E-06 | 90.000 | .58E-05 | 90.000 | .280E+04 | -90.000 | 1727.822 | 0.000 | .00019 |
| 80. | 1728.489 | 0.000 | .35E-05 | 0.00 | .45E-06 | 90.000 | .58E-05 | 90.000 | .257E+04 | -90.000 | 1728.205 | 0.000 | .00016 |
| 81. | 1728.796 | 0.000 | .35E-05 | 0.00 | .41E-06 | 90.000 | .58E-05 | 90.000 | .233E+04 | -90.000 | 1728.561 | 0.000 | .00014 |
| 82. | 1729.076 | 0.000 | .35E-05 | 0.00 | .37E-06 | 90.000 | .58E-05 | 90.000 | .209E+04 | -90.000 | 1728.888 | 0.000 | .00011 |
| 83. | 1729.329 | 180.000 | .35E-05 | 0.00 | .33E-06 | 90.000 | .58E-05 | 90.000 | .184E+04 | -90.000 | 1729.183 | 0.000 | .00008 |
| 84. | 1729.553 | 180.000 | .35E-05 | 0.00 | .28E-06 | 90.000 | .58E-05 | 90.000 | .159E+04 | -90.000 | 1729.443 | 0.000 | .00006 |
| 85. | 1729.744 | 180.000 | .35E-05 | 0.00 | .24E-06 | 90.000 | .58E-05 | 90.000 | .133E+04 | -90.000 | 1729.667 | 0.000 | .00004 |
| 86. | 1729.903 | 180.000 | .35E-05 | 0.00 | .19E-06 | 90.000 | .58E-05 | 90.000 | .107E+04 | -90.000 | 1729.854 | 0.000 | .00003 |
| 87. | 1730.028 | 180.000 | .35E-05 | 0.00 | .15E-06 | 90.000 | .58E-05 | 90.000 | .805E+03 | -90.000 | 1730.000 | 0.000 | .00002 |
| 88. | 1730.118 | 180.000 | .35E-05 | 0.00 | .97E-07 | 90.000 | .58E-05 | 90.000 | .538E+03 | -90.000 | 1730.105 | 0.000 | .00001 |
| 89. | 1730.172 | 180.000 | .35E-05 | 0.00 | .49E-07 | 90.000 | .58E-05 | 90.000 | .269E+03 | -90.000 | 1730.169 | 0.000 | 0.00000 |
| 90. | 1730.190 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .58E-05 | 90.000 | 0. | 0.000 | 1730.190 | 0.000 | 0.00000 |
| 91. | 1730.172 | 180.000 | .35E-05 | 0.00 | .49E-07 | -90.000 | .58E-05 | 90.000 | .269E+03 | 90.000 | 1730.169 | 0.000 | 0.00000 |
| 92. | 1730.118 | 180.000 | .35E-05 | 0.00 | .97E-07 | -90.000 | .58E-05 | 90.000 | .538E+03 | 90.000 | 1730.105 | 0.000 | .00001 |
| 93. | 1730.028 | 180.000 | .35E-05 | 0.00 | .15E-06 | -90.000 | .58E-05 | 90.000 | .805E+03 | 90.000 | 1730.000 | 0.000 | .00002 |
| 94. | 1729.903 | 180.000 | .35E-05 | 0.00 | .19E-06 | -90.000 | .58E-05 | 90.000 | .107E+04 | 90.000 | 1729.854 | 0.000 | .00003 |
| 95. | 1729.744 | 180.000 | .35E-05 | 0.00 | .24E-06 | -90.000 | .58E-05 | 90.000 | .133E+04 | 90.000 | 1729.667 | 0.000 | .00004 |
| 96. | 1729.553 | 180.000 | .35E-05 | 0.00 | .28E-06 | -90.000 | .58E-05 | 90.000 | .159E+04 | 90.000 | 1729.443 | 0.000 | .00006 |
| 97. | 1729.329 | 180.000 | .35E-05 | 0.00 | .33E-06 | -90.000 | .58E-05 | 90.000 | .184E+04 | 90.000 | 1729.183 | 0.000 | .00008 |
| 98. | 1729.076 | 0.000 | .35E-05 | 0.00 | .37E-06 | -90.000 | .58E-05 | 90.000 | .209E+04 | 90.000 | 1728.888 | 0.000 | .00011 |
| 99. | 1728.796 | 0.000 | .35E-05 | 0.00 | .41E-06 | -90.000 | .58E-05 | 90.000 | .233E+04 | 90.000 | 1728.561 | 0.000 | .00014 |

X-AXIS BOULE CADMIUM SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1728.489 | 0.000 | .35E-05 | 0.00 | .45E-06 | -90.000 | .58E-05 | 90.000 | .257E+04 | 90.000 | 1728.205 | 0.000 | .00016 |
| 101. | 1728.158 | 0.000 | .35E-05 | 0.00 | .48E-06 | -90.000 | .58E-05 | 90.000 | .280E+04 | 90.000 | 1727.822 | 0.000 | .00019 |
| 102. | 1727.806 | 0.000 | .35E-05 | 0.00 | .52E-06 | -90.000 | .58E-05 | 90.000 | .303E+04 | 90.000 | 1727.415 | 0.000 | .00023 |
| 103. | 1727.434 | 0.000 | .35E-05 | 0.00 | .55E-06 | -90.000 | .58E-05 | 90.000 | .325E+04 | 90.000 | 1726.987 | 0.000 | .00026 |
| 104. | 1727.046 | 0.000 | .35E-05 | 0.00 | .58E-06 | -90.000 | .58E-05 | 90.000 | .346E+04 | 90.000 | 1726.540 | 0.000 | .00029 |
| 105. | 1726.643 | 0.000 | .35E-05 | 0.00 | .61E-06 | -90.000 | .58E-05 | 90.000 | .367E+04 | 90.000 | 1726.077 | 0.000 | .00033 |
| 106. | 1726.228 | 0.000 | .35E-05 | 0.00 | .63E-06 | -90.000 | .58E-05 | 90.000 | .386E+04 | 90.000 | 1725.601 | 0.000 | .00036 |
| 107. | 1725.804 | 0.000 | .35E-05 | 0.00 | .66E-06 | -90.000 | .58E-05 | 90.000 | .406E+04 | 90.000 | 1725.116 | 0.000 | .00040 |
| 108. | 1725.372 | 0.000 | .35E-05 | 0.00 | .68E-06 | -90.000 | .58E-05 | 90.000 | .424E+04 | 90.000 | 1724.623 | 0.000 | .00043 |
| 109. | 1724.936 | 0.000 | .35E-05 | 0.00 | .70E-06 | -90.000 | .58E-05 | 90.000 | .442E+04 | 90.000 | 1724.126 | 0.000 | .00047 |
| 110. | 1724.498 | 0.000 | .35E-05 | 0.00 | .71E-06 | -90.000 | .58E-05 | 90.000 | .459E+04 | 90.000 | 1723.626 | 0.000 | .00051 |
| 111. | 1724.060 | 0.000 | .35E-05 | 0.00 | .73E-06 | -90.000 | .58E-05 | 90.000 | .476E+04 | 90.000 | 1723.127 | 0.000 | .00054 |
| 112. | 1723.624 | 0.000 | .35E-05 | 0.00 | .74E-06 | -90.000 | .58E-05 | 90.000 | .491E+04 | 90.000 | 1722.631 | 0.000 | .00058 |
| 113. | 1723.192 | 0.000 | .35E-05 | 0.00 | .75E-06 | -90.000 | .58E-05 | 90.000 | .507E+04 | 90.000 | 1722.140 | 0.000 | .00061 |
| 114. | 1722.767 | 0.000 | .35E-05 | 0.00 | .76E-06 | -90.000 | .58E-05 | 90.000 | .521E+04 | 90.000 | 1721.656 | 0.000 | .00064 |
| 115. | 1722.351 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .536E+04 | 90.000 | 1721.181 | 0.000 | .00068 |
| 116. | 1721.945 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .549E+04 | 90.000 | 1720.718 | 0.000 | .00071 |
| 117. | 1721.551 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .562E+04 | 90.000 | 1720.269 | 0.000 | .00074 |
| 118. | 1721.171 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .575E+04 | 90.000 | 1719.834 | 0.000 | .00078 |
| 119. | 1720.807 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .587E+04 | 90.000 | 1719.415 | 0.000 | .00081 |
| 120. | 1720.459 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .599E+04 | 90.000 | 1719.015 | 0.000 | .00084 |
| 121. | 1720.131 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .610E+04 | 90.000 | 1718.634 | 0.000 | .00087 |
| 122. | 1719.821 | 0.000 | .35E-05 | 0.00 | .77E-06 | -90.000 | .58E-05 | 90.000 | .621E+04 | 90.000 | 1718.273 | 0.000 | .00090 |
| 123. | 1719.533 | 0.000 | .35E-05 | 0.00 | .76E-06 | -90.000 | .58E-05 | 90.000 | .631E+04 | 90.000 | 1717.934 | 0.000 | .00093 |
| 124. | 1719.266 | 0.000 | .35E-05 | 0.00 | .75E-06 | -90.000 | .58E-05 | 90.000 | .641E+04 | 90.000 | 1717.617 | 0.000 | .00096 |
| 125. | 1719.022 | 0.000 | .34E-05 | 0.00 | .75E-06 | -90.000 | .58E-05 | 90.000 | .651E+04 | 90.000 | 1717.324 | 0.000 | .00099 |
| 126. | 1718.801 | 0.000 | .34E-05 | 0.00 | .74E-06 | -90.000 | .58E-05 | 90.000 | .661E+04 | 90.000 | 1717.055 | 0.000 | .00102 |
| 127. | 1718.605 | 0.000 | .34E-05 | 0.00 | .73E-06 | -90.000 | .58E-05 | 90.000 | .670E+04 | 90.000 | 1716.811 | 0.000 | .00104 |
| 128. | 1718.433 | 0.000 | .34E-05 | 0.00 | .72E-06 | -90.000 | .58E-05 | 90.000 | .679E+04 | 90.000 | 1716.592 | 0.000 | .00107 |
| 129. | 1718.287 | 0.000 | .34E-05 | 0.00 | .71E-06 | -90.000 | .58E-05 | 90.000 | .688E+04 | 90.000 | 1716.399 | 0.000 | .00110 |
| 130. | 1718.166 | 0.000 | .34E-05 | 0.00 | .70E-06 | -90.000 | .58E-05 | 90.000 | .696E+04 | 90.000 | 1716.232 | 0.000 | .00113 |
| 131. | 1718.071 | 0.000 | .34E-05 | 0.00 | .69E-06 | -90.000 | .58E-05 | 90.000 | .705E+04 | 90.000 | 1716.091 | 0.000 | .00115 |
| 132. | 1718.002 | 0.000 | .34E-05 | 0.00 | .68E-06 | -90.000 | .58E-05 | 90.000 | .713E+04 | 90.000 | 1715.976 | 0.000 | .00118 |
| 133. | 1717.959 | 0.000 | .34E-05 | 0.00 | .67E-06 | -90.000 | .57E-05 | 90.000 | .721E+04 | 90.000 | 1715.888 | 0.000 | .00121 |
| 134. | 1717.942 | 0.000 | .34E-05 | 0.00 | .65E-06 | -90.000 | .57E-05 | 90.000 | .728E+04 | 90.000 | 1715.825 | 0.000 | .00123 |
| 135. | 1717.951 | 0.000 | .34E-05 | 0.00 | .64E-06 | -90.000 | .57E-05 | 90.000 | .736E+04 | 90.000 | 1715.788 | 0.000 | .00126 |
| 136. | 1717.985 | 0.000 | .34E-05 | 0.00 | .63E-06 | -90.000 | .57E-05 | 90.000 | .744E+04 | 90.000 | 1715.777 | 0.000 | .00129 |
| 137. | 1718.045 | 0.000 | .34E-05 | 0.00 | .61E-06 | -90.000 | .57E-05 | 90.000 | .751E+04 | 90.000 | 1715.791 | 0.000 | .00131 |
| 138. | 1718.129 | 0.000 | .33E-05 | 0.00 | .60E-06 | -90.000 | .57E-05 | 90.000 | .759E+04 | 90.000 | 1715.829 | 0.000 | .00134 |
| 139. | 1718.237 | 0.000 | .33E-05 | 0.00 | .59E-06 | -90.000 | .57E-05 | 90.000 | .766E+04 | 90.000 | 1715.892 | 0.000 | .00136 |
| 140. | 1718.369 | 0.000 | .33E-05 | 0.00 | .57E-06 | -90.000 | .57E-05 | 90.000 | .773E+04 | 90.000 | 1715.978 | 0.000 | .00139 |
| 141. | 1718.524 | 0.000 | .33E-05 | 0.00 | .56E-06 | -90.000 | .57E-05 | 90.000 | .781E+04 | 90.000 | 1716.086 | 0.000 | .00142 |
| 142. | 1718.701 | 0.000 | .33E-05 | 0.00 | .55E-06 | -90.000 | .57E-05 | 90.000 | .788E+04 | 90.000 | 1716.216 | 0.000 | .00145 |
| 143. | 1718.900 | 0.000 | .33E-05 | 0.00 | .53E-06 | -90.000 | .57E-05 | 90.000 | .795E+04 | 90.000 | 1716.367 | 0.000 | .00147 |
| 144. | 1719.119 | 0.000 | .33E-05 | 0.00 | .52E-06 | -90.000 | .56E-05 | 90.000 | .802E+04 | 90.000 | 1716.538 | 0.000 | .00150 |
| 145. | 1719.357 | 0.000 | .32E-05 | 0.00 | .51E-06 | -90.000 | .56E-05 | 90.000 | .809E+04 | 90.000 | 1716.728 | 0.000 | .00153 |
| 146. | 1719.613 | 0.000 | .32E-05 | 0.00 | .49E-06 | -90.000 | .56E-05 | 90.000 | .817E+04 | 90.000 | 1716.936 | 0.000 | .00156 |
| 147. | 1719.887 | 0.000 | .32E-05 | 0.00 | .48E-06 | -90.000 | .56E-05 | 90.000 | .824E+04 | 90.000 | 1717.160 | 0.000 | .00159 |
| 148. | 1720.176 | 0.000 | .32E-05 | 0.00 | .47E-06 | -90.000 | .56E-05 | 90.000 | .831E+04 | 90.000 | 1717.399 | 0.000 | .00161 |
| 149. | 1720.481 | 0.000 | .32E-05 | 0.00 | .45E-06 | -90.000 | .56E-05 | 90.000 | .838E+04 | 90.000 | 1717.653 | 0.000 | .00164 |

X-AXIS BOULE  CADMIUM SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1720.799 | 0.000 | .32E-05 | 0.00 | .44E-06 | -90.000 | .56E-05 | 90.000 | .846E+04 | 90.000 | 1717.920 | 0.000 | .00167 |
| 151. | 1721.129 | 0.000 | .32E-05 | 0.00 | .43E-06 | -90.000 | .56E-05 | 90.000 | .853E+04 | 90.000 | 1718.199 | 0.000 | .00170 |
| 152. | 1721.470 | 0.000 | .31E-05 | 0.00 | .42E-06 | -90.000 | .55E-05 | 90.000 | .860E+04 | 90.000 | 1718.487 | 0.000 | .00173 |
| 153. | 1721.820 | 0.000 | .31E-05 | 0.00 | .40E-06 | -90.000 | .55E-05 | 90.000 | .867E+04 | 90.000 | 1718.785 | 0.000 | .00176 |
| 154. | 1722.178 | 0.000 | .31E-05 | 0.00 | .39E-06 | -90.000 | .55E-05 | 90.000 | .875E+04 | 90.000 | 1719.090 | 0.000 | .00179 |
| 155. | 1722.542 | 0.000 | .31E-05 | 0.00 | .38E-06 | -90.000 | .55E-05 | 90.000 | .882E+04 | 90.000 | 1719.401 | 0.000 | .00182 |
| 156. | 1722.911 | 0.000 | .31E-05 | 0.00 | .37E-06 | -90.000 | .55E-05 | 90.000 | .889E+04 | 90.000 | 1719.716 | 0.000 | .00185 |
| 157. | 1723.283 | 0.000 | .31E-05 | 0.00 | .35E-06 | -90.000 | .55E-05 | 90.000 | .897E+04 | 90.000 | 1720.034 | 0.000 | .00189 |
| 158. | 1723.657 | 0.000 | .31E-05 | 0.00 | .34E-06 | -90.000 | .55E-05 | 90.000 | .904E+04 | 90.000 | 1720.354 | 0.000 | .00192 |
| 159. | 1724.030 | 0.000 | .31E-05 | 0.00 | .33E-06 | -90.000 | .55E-05 | 90.000 | .911E+04 | 90.000 | 1720.674 | 0.000 | .00195 |
| 160. | 1724.401 | 0.000 | .30E-05 | 0.00 | .31E-06 | -90.000 | .54E-05 | 90.000 | .918E+04 | 90.000 | 1720.992 | 0.000 | .00198 |
| 161. | 1724.769 | 0.000 | .30E-05 | 0.00 | .30E-06 | -90.000 | .54E-05 | 90.000 | .925E+04 | 90.000 | 1721.306 | 0.000 | .00201 |
| 162. | 1725.132 | 0.000 | .30E-05 | 0.00 | .29E-06 | -90.000 | .54E-05 | 90.000 | .932E+04 | 90.000 | 1721.617 | 0.000 | .00204 |
| 163. | 1725.487 | 0.000 | .30E-05 | 0.00 | .27E-06 | -90.000 | .54E-05 | 90.000 | .939E+04 | 90.000 | 1721.921 | 0.000 | .00207 |
| 164. | 1725.834 | 0.000 | .30E-05 | 0.00 | .26E-06 | -90.000 | .54E-05 | 90.000 | .945E+04 | 90.000 | 1722.217 | 0.000 | .00210 |
| 165. | 1726.171 | 0.000 | .30E-05 | 0.00 | .25E-06 | -90.000 | .54E-05 | 90.000 | .951E+04 | 90.000 | 1722.504 | 0.000 | .00212 |
| 166. | 1726.495 | 0.000 | .30E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .958E+04 | 90.000 | 1722.781 | 0.000 | .00215 |
| 167. | 1726.806 | 0.000 | .29E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .963E+04 | 90.000 | 1723.046 | 0.000 | .00218 |
| 168. | 1727.101 | 0.000 | .29E-05 | 0.00 | .20E-06 | -90.000 | .54E-05 | 90.000 | .969E+04 | 90.000 | 1723.297 | 0.000 | .00220 |
| 169. | 1727.380 | 0.000 | .29E-05 | 0.00 | .19E-06 | -90.000 | .54E-05 | 90.000 | .974E+04 | 90.000 | 1723.534 | 0.000 | .00223 |
| 170. | 1727.639 | 0.000 | .29E-05 | 0.00 | .17E-06 | -90.000 | .54E-05 | 90.000 | .979E+04 | 90.000 | 1723.754 | 0.000 | .00225 |
| 171. | 1727.879 | 0.000 | .29E-05 | 0.00 | .16E-06 | -90.000 | .53E-05 | 90.000 | .984E+04 | 90.000 | 1723.958 | 0.000 | .00227 |
| 172. | 1728.098 | 0.000 | .29E-05 | 0.00 | .14E-06 | -90.000 | .53E-05 | 90.000 | .988E+04 | 90.000 | 1724.143 | 0.000 | .00229 |
| 173. | 1728.294 | 0.000 | .29E-05 | 0.00 | .12E-06 | -90.000 | .53E-05 | 90.000 | .992E+04 | 90.000 | 1724.309 | 0.000 | .00231 |
| 174. | 1728.467 | 0.000 | .29E-05 | 0.00 | .10E-06 | -90.000 | .53E-05 | 90.000 | .995E+04 | 90.000 | 1724.455 | 0.000 | .00232 |
| 175. | 1728.614 | 0.000 | .29E-05 | 0.00 | .88E-07 | -90.000 | .53E-05 | 90.000 | .998E+04 | 90.000 | 1724.580 | 0.000 | .00233 |
| 176. | 1728.736 | 0.000 | .29E-05 | 0.00 | .71E-07 | -90.000 | .53E-05 | 90.000 | .100E+05 | 90.000 | 1724.683 | 0.000 | .00234 |
| 177. | 1728.832 | 0.000 | .29E-05 | 0.00 | .53E-07 | -90.000 | .53E-05 | 90.000 | .100E+05 | 90.000 | 1724.764 | 0.000 | .00235 |
| 178. | 1728.901 | 0.000 | .29E-05 | 0.00 | .35E-07 | -90.000 | .53E-05 | 90.000 | .100E+05 | 90.000 | 1724.822 | 0.000 | .00236 |
| 179. | 1728.942 | 0.000 | .29E-05 | 0.00 | .18E-07 | -90.000 | .53E-05 | 90.000 | .100E+05 | 90.000 | 1724.857 | 0.000 | .00236 |
| 180. | 1728.956 | 0.000 | .29E-05 | 0.00 | 0. | 0.000 | .53E-05 | 90.000 | .100E+05 | 90.000 | 1724.869 | 0.000 | .00236 |

Z-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 10970.910 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 1. | 10971.070 | .096 | .11E-05 | 0.00 | .45E-08 | -180.000 | .14E-05 | 90.000 |
| 2. | 10971.550 | .191 | .11E-05 | 0.00 | .90E-08 | 180.000 | .14E-05 | 90.000 |
| 3. | 10972.340 | .286 | .11E-05 | 0.00 | .14E-07 | -180.000 | .14E-05 | 90.000 |
| 4. | 10973.460 | .380 | .11E-05 | 0.00 | .18E-07 | -180.000 | .14E-05 | 90.000 |
| 5. | 10974.880 | .472 | .11E-05 | 0.00 | .22E-07 | 180.000 | .14E-05 | 90.000 |
| 6. | 10976.610 | .563 | .11E-05 | 0.00 | .27E-07 | -180.000 | .14E-05 | 90.000 |
| 7. | 10978.650 | .652 | .11E-05 | 0.00 | .31E-07 | -180.000 | .14E-05 | 90.000 |
| 8. | 10980.970 | .738 | .11E-05 | 0.00 | .35E-07 | -180.000 | .14E-05 | 90.000 |
| 9. | 10983.580 | .822 | .11E-05 | 0.00 | .39E-07 | 180.000 | .14E-05 | 90.000 |
| 10. | 10986.470 | .903 | .11E-05 | 0.00 | .43E-07 | -180.000 | .14E-05 | 90.000 |
| 11. | 10989.620 | .980 | .11E-05 | 0.00 | .46E-07 | 180.000 | .14E-05 | 90.000 |
| 12. | 10993.030 | 1.054 | .11E-05 | 0.00 | .50E-07 | -180.000 | .14E-05 | 90.000 |
| 13. | 10996.680 | 1.124 | .11E-05 | 0.00 | .53E-07 | 180.000 | .14E-05 | 90.000 |
| 14. | 11000.550 | 1.189 | .11E-05 | 0.00 | .56E-07 | 180.000 | .14E-05 | 90.000 |
| 15. | 11004.640 | 1.250 | .11E-05 | 0.00 | .59E-07 | -180.000 | .14E-05 | 90.000 |
| 16. | 11008.930 | 1.306 | .11E-05 | 0.00 | .61E-07 | -180.000 | .14E-05 | 90.000 |
| 17. | 11013.400 | 1.357 | .11E-05 | 0.00 | .64E-07 | 180.000 | .14E-05 | 90.000 |
| 18. | 11018.030 | 1.402 | .11E-05 | 0.00 | .66E-07 | 180.000 | .14E-05 | 90.000 |
| 19. | 11022.810 | 1.442 | .11E-05 | 0.00 | .68E-07 | -180.000 | .14E-05 | 90.000 |
| 20. | 11027.710 | 1.475 | .11E-05 | 0.00 | .69E-07 | -180.000 | .14E-05 | 90.000 |
| 21. | 11032.710 | 1.502 | .11E-05 | 0.00 | .70E-07 | -180.000 | .14E-05 | 90.000 |
| 22. | 11037.800 | 1.523 | .11E-05 | 0.00 | .71E-07 | -180.000 | .14E-05 | 90.000 |
| 23. | 11042.950 | 1.537 | .11E-05 | 0.00 | .72E-07 | 180.000 | .14E-05 | 90.000 |
| 24. | 11048.140 | 1.543 | .11E-05 | 0.00 | .72E-07 | -180.000 | .14E-05 | 90.000 |
| 25. | 11053.330 | 1.542 | .11E-05 | 0.00 | .72E-07 | 180.000 | .14E-05 | 90.000 |
| 26. | 11058.520 | 1.534 | .11E-05 | 0.00 | .71E-07 | -180.000 | .14E-05 | 90.000 |
| 27. | 11063.660 | 1.518 | .11E-05 | 0.00 | .70E-07 | -180.000 | .14E-05 | 90.000 |
| 28. | 11068.740 | 1.495 | .11E-05 | 0.00 | .69E-07 | 180.000 | .14E-05 | 90.000 |
| 29. | 11073.730 | 1.463 | .11E-05 | 0.00 | .67E-07 | 180.000 | .14E-05 | 90.000 |
| 30. | 11078.610 | 1.423 | .11E-05 | 0.00 | .65E-07 | 180.000 | .14E-05 | 90.000 |
| 31. | 11083.330 | 1.376 | .11E-05 | 0.00 | .62E-07 | -180.000 | .14E-05 | 90.000 |
| 32. | 11087.890 | 1.320 | .11E-05 | 0.00 | .60E-07 | -180.000 | .14E-05 | 90.000 |
| 33. | 11092.240 | 1.257 | .11E-05 | 0.00 | .57E-07 | 180.000 | .14E-05 | 90.000 |
| 34. | 11096.370 | 1.185 | .11E-05 | 0.00 | .53E-07 | -180.000 | .14E-05 | 90.000 |
| 35. | 11100.250 | 1.106 | .11E-05 | 0.00 | .49E-07 | -180.000 | .14E-05 | 90.000 |
| 36. | 11103.850 | 1.020 | .11E-05 | 0.00 | .45E-07 | 180.000 | .14E-05 | 90.000 |
| 37. | 11107.140 | .926 | .11E-05 | 0.00 | .41E-07 | -180.000 | .14E-05 | 90.000 |
| 38. | 11110.110 | .826 | .11E-05 | 0.00 | .36E-07 | 180.000 | .14E-05 | 90.000 |
| 39. | 11112.730 | .721 | .11E-05 | 0.00 | .32E-07 | -180.000 | .14E-05 | 90.000 |
| 40. | 11114.980 | .609 | .11E-05 | 0.00 | .26E-07 | 180.000 | .14E-05 | 90.000 |
| 41. | 11116.850 | .493 | .11E-05 | 0.00 | .21E-07 | -180.000 | .14E-05 | 90.000 |
| 42. | 11118.320 | .373 | .11E-05 | 0.00 | .16E-07 | -180.000 | .14E-05 | 90.000 |
| 43. | 11119.370 | .251 | .11E-05 | 0.00 | .11E-07 | -180.000 | .14E-05 | 90.000 |
| 44. | 11120.010 | .126 | .11E-05 | 0.00 | .54E-08 | -180.000 | .14E-05 | 90.000 |
| 45. | 11120.230 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 46. | 11120.010 | -.126 | .11E-05 | 0.00 | .54E-08 | 0.000 | .14E-05 | 90.000 |
| 47. | 11119.370 | -.251 | .11E-05 | 0.00 | .11E-07 | 0.000 | .14E-05 | 90.000 |
| 48. | 11118.320 | -.373 | .11E-05 | 0.00 | .16E-07 | 0.000 | .14E-05 | 90.000 |
| 49. | 11116.850 | -.493 | .11E-05 | 0.00 | .21E-07 | 0.000 | .14E-05 | 90.000 |

Z-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 11114.980 | -.609 | .11E-05 | 0.00 | .26E-07 | 0.000 | .14E-05 | 90.000 |
| 51. | 11112.730 | -.721 | .11E-05 | 0.00 | .32E-07 | 0.000 | .14E-05 | 90.000 |
| 52. | 11110.110 | -.826 | .11E-05 | 0.00 | .36E-07 | 0.000 | .14E-05 | 90.000 |
| 53. | 11107.140 | -.926 | .11E-05 | 0.00 | .41E-07 | 0.000 | .14E-05 | 90.000 |
| 54. | 11103.850 | -1.020 | .11E-05 | 0.00 | .45E-07 | 0.000 | .14E-05 | 90.000 |
| 55. | 11100.250 | -1.106 | .11E-05 | 0.00 | .49E-07 | 0.000 | .14E-05 | 90.000 |
| 56. | 11096.370 | -1.185 | .11E-05 | 0.00 | .53E-07 | 0.000 | .14E-05 | 90.000 |
| 57. | 11092.240 | -1.257 | .11E-05 | 0.00 | .57E-07 | 0.000 | .14E-05 | 90.000 |
| 58. | 11087.890 | -1.320 | .11E-05 | 0.00 | .60E-07 | 0.000 | .14E-05 | 90.000 |
| 59. | 11083.330 | -1.376 | .11E-05 | 0.00 | .62E-07 | 0.000 | .14E-05 | 90.000 |
| 60. | 11078.610 | -1.423 | .11E-05 | 0.00 | .65E-07 | 0.000 | .14E-05 | 90.000 |
| 61. | 11073.730 | -1.463 | .11E-05 | 0.00 | .67E-07 | 0.000 | .14E-05 | 90.000 |
| 62. | 11068.740 | -1.495 | .11E-05 | 0.00 | .69E-07 | 0.000 | .14E-05 | 90.000 |
| 63. | 11063.660 | -1.518 | .11E-05 | 0.00 | .70E-07 | 0.000 | .14E-05 | 90.000 |
| 64. | 11058.520 | -1.534 | .11E-05 | 0.00 | .71E-07 | 0.000 | .14E-05 | 90.000 |
| 65. | 11053.330 | -1.542 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 66. | 11048.140 | -1.543 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 67. | 11042.950 | -1.537 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 68. | 11037.800 | -1.523 | .11E-05 | 0.00 | .71E-07 | 0.000 | .14E-05 | 90.000 |
| 69. | 11032.710 | -1.502 | .11E-05 | 0.00 | .70E-07 | 0.000 | .14E-05 | 90.000 |
| 70. | 11027.710 | -1.475 | .11E-05 | 0.00 | .69E-07 | 0.000 | .14E-05 | 90.000 |
| 71. | 11022.810 | -1.442 | .11E-05 | 0.00 | .68E-07 | 0.000 | .14E-05 | 90.000 |
| 72. | 11018.030 | -1.402 | .11E-05 | 0.00 | .66E-07 | 0.000 | .14E-05 | 90.000 |
| 73. | 11013.400 | -1.357 | .11E-05 | 0.00 | .64E-07 | 0.000 | .14E-05 | 90.000 |
| 74. | 11008.930 | -1.306 | .11E-05 | 0.00 | .61E-07 | 0.000 | .14E-05 | 90.000 |
| 75. | 11004.640 | -1.250 | .11E-05 | 0.00 | .59E-07 | 0.000 | .14E-05 | 90.000 |
| 76. | 11000.550 | -1.189 | .11E-05 | 0.00 | .56E-07 | 0.000 | .14E-05 | 90.000 |
| 77. | 10996.680 | -1.124 | .11E-05 | 0.00 | .53E-07 | 0.000 | .14E-05 | 90.000 |
| 78. | 10993.030 | -1.054 | .11E-05 | 0.00 | .50E-07 | 0.000 | .14E-05 | 90.000 |
| 79. | 10989.620 | -.980 | .11E-05 | 0.00 | .46E-07 | 0.000 | .14E-05 | 90.000 |
| 80. | 10986.470 | -.903 | .11E-05 | 0.00 | .43E-07 | 0.000 | .14E-05 | 90.000 |
| 81. | 10983.580 | -.822 | .11E-05 | 0.00 | .39E-07 | 0.000 | .14E-05 | 90.000 |
| 82. | 10980.970 | -.738 | .11E-05 | 0.00 | .35E-07 | 0.000 | .14E-05 | 90.000 |
| 83. | 10978.650 | -.652 | .11E-05 | 0.00 | .31E-07 | 0.000 | .14E-05 | 90.000 |
| 84. | 10976.610 | -.563 | .11E-05 | 0.00 | .27E-07 | 0.000 | .14E-05 | 90.000 |
| 85. | 10974.880 | -.472 | .11E-05 | 0.00 | .22E-07 | 0.000 | .14E-05 | 90.000 |
| 86. | 10973.460 | -.380 | .11E-05 | 0.00 | .18E-07 | 0.000 | .14E-05 | 90.000 |
| 87. | 10972.340 | -.286 | .11E-05 | 0.00 | .14E-07 | 0.000 | .14E-05 | 90.000 |
| 88. | 10971.550 | -.191 | .11E-05 | 0.00 | .90E-08 | 0.000 | .14E-05 | 90.000 |
| 89. | 10971.070 | -.096 | .11E-05 | 0.00 | .45E-08 | 0.000 | .14E-05 | 90.000 |
| 90. | 10970.910 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 91. | 10971.070 | .096 | .11E-05 | 0.00 | .45E-08 | 180.000 | .14E-05 | 90.000 |
| 92. | 10971.550 | .191 | .11E-05 | 0.00 | .90E-08 | 180.000 | .14E-05 | 90.000 |
| 93. | 10972.340 | .286 | .11E-05 | 0.00 | .14E-07 | -180.000 | .14E-05 | 90.000 |
| 94. | 10973.460 | .380 | .11E-05 | 0.00 | .18E-07 | 180.000 | .14E-05 | 90.000 |
| 95. | 10974.880 | .472 | .11E-05 | 0.00 | .22E-07 | -180.000 | .14E-05 | 90.000 |
| 96. | 10976.610 | .563 | .11E-05 | 0.00 | .27E-07 | 180.000 | .14E-05 | 90.000 |
| 97. | 10978.650 | .652 | .11E-05 | 0.00 | .31E-07 | -180.000 | .14E-05 | 90.000 |
| 98. | 10980.970 | .738 | .11E-05 | 0.00 | .35E-07 | 180.000 | .14E-05 | 90.000 |
| 99. | 10983.580 | .822 | .11E-05 | 0.00 | .39E-07 | 180.000 | .14E-05 | 90.000 |

Z-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 10986.470 | .903 | .11E-05 | 0.00 | .43E-07 | 180.000 | .14E-05 | 90.000 |
| 101. | 10989.620 | .980 | .11E-05 | 0.00 | .46E-07 | -180.000 | .14E-05 | 90.000 |
| 102. | 10993.030 | 1.054 | .11E-05 | 0.00 | .50E-07 | 180.000 | .14E-05 | 90.000 |
| 103. | 10996.680 | 1.124 | .11E-05 | 0.00 | .53E-07 | -180.000 | .14E-05 | 90.000 |
| 104. | 11000.550 | 1.189 | .11E-05 | 0.00 | .56E-07 | -180.000 | .14E-05 | 90.000 |
| 105. | 11004.640 | 1.250 | .11E-05 | 0.00 | .59E-07 | -180.000 | .14E-05 | 90.000 |
| 106. | 11008.930 | 1.306 | .11E-05 | 0.00 | .61E-07 | -180.000 | .14E-05 | 90.000 |
| 107. | 11013.400 | 1.357 | .11E-05 | 0.00 | .64E-07 | 180.000 | .14E-05 | 90.000 |
| 108. | 11018.030 | 1.402 | .11E-05 | 0.00 | .66E-07 | 180.000 | .14E-05 | 90.000 |
| 109. | 11022.810 | 1.442 | .11E-05 | 0.00 | .68E-07 | -180.000 | .14E-05 | 90.000 |
| 110. | 11027.710 | 1.475 | .11E-05 | 0.00 | .69E-07 | -180.000 | .14E-05 | 90.000 |
| 111. | 11032.710 | 1.502 | .11E-05 | 0.00 | .70E-07 | -180.000 | .14E-05 | 90.000 |
| 112. | 11037.800 | 1.523 | .11E-05 | 0.00 | .71E-07 | -180.000 | .14E-05 | 90.000 |
| 113. | 11042.950 | 1.537 | .11E-05 | 0.00 | .72E-07 | 180.000 | .14E-05 | 90.000 |
| 114. | 11048.140 | 1.543 | .11E-05 | 0.00 | .72E-07 | -180.000 | .14E-05 | 90.000 |
| 115. | 11053.330 | 1.542 | .11E-05 | 0.00 | .72E-07 | 180.000 | .14E-05 | 90.000 |
| 116. | 11058.520 | 1.534 | .11E-05 | 0.00 | .71E-07 | -180.000 | .14E-05 | 90.000 |
| 117. | 11063.660 | 1.518 | .11E-05 | 0.00 | .70E-07 | -180.000 | .14E-05 | 90.000 |
| 118. | 11068.740 | 1.495 | .11E-05 | 0.00 | .69E-07 | 180.000 | .14E-05 | 90.000 |
| 119. | 11073.730 | 1.463 | .11E-05 | 0.00 | .67E-07 | 180.000 | .14E-05 | 90.000 |
| 120. | 11078.610 | 1.423 | .11E-05 | 0.00 | .65E-07 | 180.000 | .14E-05 | 90.000 |
| 121. | 11083.330 | 1.376 | .11E-05 | 0.00 | .62E-07 | -180.000 | .14E-05 | 90.000 |
| 122. | 11087.890 | 1.320 | .11E-05 | 0.00 | .60E-07 | -180.000 | .14E-05 | 90.000 |
| 123. | 11092.240 | 1.257 | .11E-05 | 0.00 | .57E-07 | 180.000 | .14E-05 | 90.000 |
| 124. | 11096.370 | 1.185 | .11E-05 | 0.00 | .53E-07 | -180.000 | .14E-05 | 90.000 |
| 125. | 11100.250 | 1.106 | .11E-05 | 0.00 | .49E-07 | -180.000 | .14E-05 | 90.000 |
| 126. | 11103.850 | 1.020 | .11E-05 | 0.00 | .45E-07 | 180.000 | .14E-05 | 90.000 |
| 127. | 11107.140 | .926 | .11E-05 | 0.00 | .41E-07 | -180.000 | .14E-05 | 90.000 |
| 128. | 11110.110 | .826 | .11E-05 | 0.00 | .36E-07 | 180.000 | .14E-05 | 90.000 |
| 129. | 11112.730 | .721 | .11E-05 | 0.00 | .32E-07 | -180.000 | .14E-05 | 90.000 |
| 130. | 11114.980 | .609 | .11E-05 | 0.00 | .26E-07 | 180.000 | .14E-05 | 90.000 |
| 131. | 11116.850 | .493 | .11E-05 | 0.00 | .21E-07 | -180.000 | .14E-05 | 90.000 |
| 132. | 11118.320 | .373 | .11E-05 | 0.00 | .16E-07 | -180.000 | .14E-05 | 90.000 |
| 133. | 11119.370 | .251 | .11E-05 | 0.00 | .11E-07 | -180.000 | .14E-05 | 90.000 |
| 134. | 11120.010 | .126 | .11E-05 | 0.00 | .54E-08 | -180.000 | .14E-05 | 90.000 |
| 135. | 11120.230 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 136. | 11120.010 | -.126 | .11E-05 | 0.00 | .54E-08 | 0.000 | .14E-05 | 90.000 |
| 137. | 11119.370 | -.251 | .11E-05 | 0.00 | .11E-07 | 0.000 | .14E-05 | 90.000 |
| 138. | 11118.320 | -.373 | .11E-05 | 0.00 | .16E-07 | 0.000 | .14E-05 | 90.000 |
| 139. | 11116.850 | -.493 | .11E-05 | 0.00 | .21E-07 | 0.000 | .14E-05 | 90.000 |
| 140. | 11114.980 | -.609 | .11E-05 | 0.00 | .26E-07 | 0.000 | .14E-05 | 90.000 |
| 141. | 11112.730 | -.721 | .11E-05 | 0.00 | .32E-07 | 0.000 | .14E-05 | 90.000 |
| 142. | 11110.110 | -.826 | .11E-05 | 0.00 | .36E-07 | 0.000 | .14E-05 | 90.000 |
| 143. | 11107.140 | -.926 | .11E-05 | 0.00 | .41E-07 | 0.000 | .14E-05 | 90.000 |
| 144. | 11103.850 | -1.020 | .11E-05 | 0.00 | .45E-07 | 0.000 | .14E-05 | 90.000 |
| 145. | 11100.250 | -1.106 | .11E-05 | 0.00 | .49E-07 | 0.000 | .14E-05 | 90.000 |
| 146. | 11096.370 | -1.185 | .11E-05 | 0.00 | .53E-07 | 0.000 | .14E-05 | 90.000 |
| 147. | 11092.240 | -1.257 | .11E-05 | 0.00 | .57E-07 | 0.000 | .14E-05 | 90.000 |
| 148. | 11087.890 | -1.320 | .11E-05 | 0.00 | .60E-07 | 0.000 | .14E-05 | 90.000 |
| 149. | 11083.330 | -1.376 | .11E-05 | 0.00 | .62E-07 | 0.000 | .14E-05 | 90.000 |

| | | | Z-CUT | | DIAMOND | | | |
|---|---|---|---|---|---|---|---|---|
| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
| 150. | 11078.610 | -1.423 | .11E-05 | 0.00 | .65E-07 | 0.000 | .14E-05 | 90.000 |
| 151. | 11073.730 | -1.463 | .11E-05 | 0.00 | .67E-07 | 0.000 | .14E-05 | 90.000 |
| 152. | 11068.740 | -1.495 | .11E-05 | 0.00 | .69E-07 | 0.000 | .14E-05 | 90.000 |
| 153. | 11063.660 | -1.518 | .11E-05 | 0.00 | .70E-07 | 0.000 | .14E-05 | 90.000 |
| 154. | 11058.520 | -1.534 | .11E-05 | 0.00 | .71E-07 | 0.000 | .14E-05 | 90.000 |
| 155. | 11053.330 | -1.542 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 156. | 11048.140 | -1.543 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 157. | 11042.950 | -1.537 | .11E-05 | 0.00 | .72E-07 | 0.000 | .14E-05 | 90.000 |
| 158. | 11037.800 | -1.523 | .11E-05 | 0.00 | .71E-07 | 0.000 | .14E-05 | 90.000 |
| 159. | 11032.710 | -1.502 | .11E-05 | 0.00 | .70E-07 | 0.000 | .14E-05 | 90.000 |
| 160. | 11027.710 | -1.475 | .11E-05 | 0.00 | .69E-07 | 0.000 | .14E-05 | 90.000 |
| 161. | 11022.810 | -1.442 | .11E-05 | 0.00 | .68E-07 | 0.000 | .14E-05 | 90.000 |
| 162. | 11018.030 | -1.402 | .11E-05 | 0.00 | .66E-07 | 0.000 | .14E-05 | 90.000 |
| 163. | 11013.400 | -1.357 | .11E-05 | 0.00 | .64E-07 | 0.000 | .14E-05 | 90.000 |
| 164. | 11008.930 | -1.306 | .11E-05 | 0.00 | .61E-07 | 0.000 | .14E-05 | 90.000 |
| 165. | 11004.640 | -1.250 | .11E-05 | 0.00 | .59E-07 | 0.000 | .14E-05 | 90.000 |
| 166. | 11000.550 | -1.189 | .11E-05 | 0.00 | .56E-07 | 0.000 | .14E-05 | 90.000 |
| 167. | 10996.680 | -1.124 | .11E-05 | 0.00 | .53E-07 | 0.000 | .14E-05 | 90.000 |
| 168. | 10993.030 | -1.054 | .11E-05 | 0.00 | .50E-07 | 0.000 | .14E-05 | 90.000 |
| 169. | 10989.620 | -.980 | .11E-05 | 0.00 | .46E-07 | 0.000 | .14E-05 | 90.000 |
| 170. | 10986.470 | -.903 | .11E-05 | 0.00 | .43E-07 | 0.000 | .14E-05 | 90.000 |
| 171. | 10983.580 | -.822 | .11E-05 | 0.00 | .39E-07 | 0.000 | .14E-05 | 90.000 |
| 172. | 10980.970 | -.738 | .11E-05 | 0.00 | .35E-07 | 0.000 | .14E-05 | 90.000 |
| 173. | 10978.650 | -.652 | .11E-05 | 0.00 | .31E-07 | 0.000 | .14E-05 | 90.000 |
| 174. | 10976.610 | -.563 | .11E-05 | 0.00 | .27E-07 | 0.000 | .14E-05 | 90.000 |
| 175. | 10974.880 | -.472 | .11E-05 | 0.00 | .22E-07 | 0.000 | .14E-05 | 90.000 |
| 176. | 10973.460 | -.380 | .11E-05 | 0.00 | .18E-07 | 0.000 | .14E-05 | 90.000 |
| 177. | 10972.340 | -.286 | .11E-05 | 0.00 | .14E-07 | 0.000 | .14E-05 | 90.000 |
| 178. | 10971.550 | -.191 | .11E-05 | 0.00 | .90E-08 | 0.000 | .14E-05 | 90.000 |
| 179. | 10971.070 | -.096 | .11E-05 | 0.00 | .45E-08 | 0.000 | .14E-05 | 90.000 |
| 180. | 10970.910 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |

110-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 10602.310 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 1. | 10602.580 | .167 | .98E-06 | 0.00 | .32E-09 | 180.000 | .14E-05 | 90.000 |
| 2. | 10603.390 | .334 | .98E-06 | 0.00 | .63E-09 | 180.000 | .14E-05 | 90.000 |
| 3. | 10604.730 | .499 | .98E-06 | 0.00 | .92E-09 | 180.000 | .14E-05 | 90.000 |
| 4. | 10606.610 | .663 | .98E-06 | 0.00 | .12E-08 | 180.000 | .14E-05 | 90.000 |
| 5. | 10609.020 | .825 | .98E-06 | 0.00 | .14E-08 | 180.000 | .14E-05 | 90.000 |
| 6. | 10611.940 | .985 | .98E-06 | 0.00 | .16E-08 | 180.000 | .14E-05 | 90.000 |
| 7. | 10615.380 | 1.141 | .98E-06 | 0.00 | .18E-08 | 180.000 | .14E-05 | 90.000 |
| 8. | 10619.320 | 1.293 | .98E-06 | 0.00 | .19E-08 | 180.000 | .14E-05 | 90.000 |
| 9. | 10623.740 | 1.442 | .98E-06 | 0.00 | .19E-08 | 180.000 | .14E-05 | 90.000 |
| 10. | 10628.650 | 1.586 | .98E-06 | 0.00 | .19E-08 | 180.000 | .14E-05 | 90.000 |
| 11. | 10634.010 | 1.725 | .98E-06 | 0.00 | .18E-08 | 180.000 | .14E-05 | 90.000 |
| 12. | 10639.820 | 1.858 | .98E-06 | 0.00 | .16E-08 | 180.000 | .14E-05 | 90.000 |
| 13. | 10646.060 | 1.986 | .98E-06 | 0.00 | .14E-08 | 180.000 | .14E-05 | 90.000 |
| 14. | 10652.700 | 2.108 | .98E-06 | 0.00 | .99E-09 | 180.000 | .14E-05 | 90.000 |
| 15. | 10659.730 | 2.222 | .98E-06 | 0.00 | .53E-09 | 180.000 | .14E-05 | 90.000 |
| 16. | 10667.130 | 2.330 | .98E-06 | 0.00 | .36E-10 | 0.000 | .14E-05 | 90.000 |
| 17. | 10674.880 | 2.430 | .98E-06 | 0.00 | .71E-09 | 0.000 | .14E-05 | 90.000 |
| 18. | 10682.940 | 2.523 | .98E-06 | 0.00 | .15E-08 | 0.000 | .14E-05 | 90.000 |
| 19. | 10691.300 | 2.608 | .98E-06 | 0.00 | .24E-08 | 0.000 | .14E-05 | 90.000 |
| 20. | 10699.930 | 2.685 | .98E-06 | 0.00 | .34E-08 | 0.000 | .14E-05 | 90.000 |
| 21. | 10708.810 | 2.753 | .98E-06 | 0.00 | .46E-08 | 0.000 | .14E-05 | 90.000 |
| 22. | 10717.900 | 2.812 | .98E-06 | 0.00 | .58E-08 | 0.000 | .14E-05 | 90.000 |
| 23. | 10727.170 | 2.863 | .98E-06 | 0.00 | .72E-08 | 0.000 | .14E-05 | 90.000 |
| 24. | 10736.610 | 2.905 | .98E-06 | 0.00 | .88E-08 | 0.000 | .14E-05 | 90.000 |
| 25. | 10746.190 | 2.938 | .98E-06 | 0.00 | .10E-07 | 0.000 | .14E-05 | 90.000 |
| 26. | 10755.860 | 2.963 | .98E-06 | 0.00 | .12E-07 | 0.000 | .14E-05 | 90.000 |
| 27. | 10765.610 | 2.978 | .98E-06 | 0.00 | .14E-07 | 0.000 | .14E-05 | 90.000 |
| 28. | 10775.400 | 2.985 | .98E-06 | 0.00 | .16E-07 | 0.000 | .14E-05 | 90.000 |
| 29. | 10785.210 | 2.983 | .98E-06 | 0.00 | .18E-07 | 0.000 | .14E-05 | 90.000 |
| 30. | 10795.010 | 2.973 | .98E-06 | 0.00 | .21E-07 | 0.000 | .14E-05 | 90.000 |
| 31. | 10804.770 | 2.955 | .98E-06 | 0.00 | .23E-07 | 0.000 | .14E-05 | 90.000 |
| 32. | 10814.470 | 2.929 | .98E-06 | 0.00 | .26E-07 | 0.000 | .14E-05 | 90.000 |
| 33. | 10824.080 | 2.896 | .98E-06 | 0.00 | .28E-07 | 0.000 | .14E-05 | 90.000 |
| 34. | 10833.570 | 2.856 | .99E-06 | 0.00 | .31E-07 | 0.000 | .14E-05 | 90.000 |
| 35. | 10842.930 | 2.809 | .99E-06 | 0.00 | .34E-07 | 0.000 | .14E-05 | 90.000 |
| 36. | 10852.140 | 2.757 | .99E-06 | 0.00 | .37E-07 | 0.000 | .14E-05 | 90.000 |
| 37. | 10861.170 | 2.700 | .99E-06 | 0.00 | .40E-07 | 0.000 | .14E-05 | 90.000 |
| 38. | 10870.010 | 2.638 | .99E-06 | 0.00 | .43E-07 | 0.000 | .14E-05 | 90.000 |
| 39. | 10878.650 | 2.573 | .99E-06 | 0.00 | .46E-07 | 0.000 | .14E-05 | 90.000 |
| 40. | 10887.070 | 2.504 | .99E-06 | 0.00 | .50E-07 | 0.000 | .14E-05 | 90.000 |
| 41. | 10895.270 | 2.434 | .99E-06 | 0.00 | .53E-07 | 0.000 | .14E-05 | 90.000 |
| 42. | 10903.230 | 2.361 | .99E-06 | 0.00 | .57E-07 | 0.000 | .14E-05 | 90.000 |
| 43. | 10910.960 | 2.287 | .10E-05 | 0.00 | .60E-07 | 0.000 | .14E-05 | 90.000 |
| 44. | 10918.440 | 2.213 | .10E-05 | 0.00 | .64E-07 | 0.000 | .14E-05 | 90.000 |
| 45. | 10925.680 | 2.138 | .10E-05 | 0.00 | .67E-07 | 0.000 | .14E-05 | 90.000 |
| 46. | 10932.680 | 2.064 | .10E-05 | 0.00 | .71E-07 | 0.000 | .14E-05 | 90.000 |
| 47. | 10939.440 | 1.991 | .10E-05 | 0.00 | .75E-07 | 0.000 | .14E-05 | 90.000 |
| 48. | 10945.960 | 1.919 | .10E-05 | 0.00 | .78E-07 | 0.000 | .14E-05 | 90.000 |
| 49. | 10952.240 | 1.849 | .10E-05 | 0.00 | .82E-07 | 0.000 | .14E-05 | 90.000 |

110°-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 10958.300 | 1.780 | .10E-05 | 0.00 | .85E-07 | 0.000 | .14E-05 | 90.000 |
| 51. | 10964.130 | 1.712 | .10E-05 | 0.00 | .89E-07 | 0.000 | .14E-05 | 90.000 |
| 52. | 10969.740 | 1.647 | .10E-05 | 0.00 | .92E-07 | 0.000 | .14E-05 | 90.000 |
| 53. | 10975.140 | 1.583 | .10E-05 | 0.00 | .95E-07 | 0.000 | .13E-05 | 90.000 |
| 54. | 10980.340 | 1.522 | .10E-05 | 0.00 | .98E-07 | 0.000 | .13E-05 | 90.000 |
| 55. | 10985.330 | 1.462 | .10E-05 | 0.00 | .10E-06 | 0.000 | .13E-05 | 90.000 |
| 56. | 10990.120 | 1.404 | .10E-05 | 0.00 | .10E-06 | 0.000 | .13E-05 | 90.000 |
| 57. | 10994.730 | 1.347 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 58. | 10999.150 | 1.292 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 59. | 11003.390 | 1.239 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 60. | 11007.460 | 1.187 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 61. | 11011.350 | 1.136 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 62. | 11015.080 | 1.087 | .10E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 63. | 11018.650 | 1.039 | .11E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 64. | 11022.060 | .992 | .11E-05 | 0.00 | .11E-06 | 0.000 | .13E-05 | 90.000 |
| 65. | 11025.320 | .947 | .11E-05 | 0.00 | .11E-06 | 0.000 | .14E-05 | 90.000 |
| 66. | 11028.420 | .902 | .11E-05 | 0.00 | .11E-06 | 0.000 | .14E-05 | 90.000 |
| 67. | 11031.380 | .858 | .11E-05 | 0.00 | .11E-06 | 0.000 | .14E-05 | 90.000 |
| 68. | 11034.190 | .816 | .11E-05 | 0.00 | .11E-06 | 0.000 | .14E-05 | 90.000 |
| 69. | 11036.860 | .774 | .11E-05 | 0.00 | .11E-06 | 0.000 | .14E-05 | 90.000 |
| 70. | 11039.400 | .733 | .11E-05 | 0.00 | .10E-06 | 0.000 | .14E-05 | 90.000 |
| 71. | 11041.790 | .692 | .11E-05 | 0.00 | .10E-06 | 0.000 | .14E-05 | 90.000 |
| 72. | 11044.060 | .653 | .11E-05 | 0.00 | .98E-07 | 0.000 | .14E-05 | 90.000 |
| 73. | 11046.190 | .614 | .11E-05 | 0.00 | .95E-07 | 0.000 | .14E-05 | 90.000 |
| 74. | 11048.190 | .575 | .11E-05 | 0.00 | .91E-07 | 0.000 | .14E-05 | 90.000 |
| 75. | 11050.060 | .537 | .11E-05 | 0.00 | .87E-07 | 0.000 | .14E-05 | 90.000 |
| 76. | 11051.800 | .500 | .11E-05 | 0.00 | .83E-07 | 0.000 | .14E-05 | 90.000 |
| 77. | 11053.420 | .462 | .11E-05 | 0.00 | .78E-07 | 0.000 | .14E-05 | 90.000 |
| 78. | 11054.920 | .426 | .11E-05 | 0.00 | .73E-07 | 0.000 | .14E-05 | 90.000 |
| 79. | 11056.290 | .389 | .11E-05 | 0.00 | .68E-07 | 0.000 | .14E-05 | 90.000 |
| 80. | 11057.540 | .353 | .11E-05 | 0.00 | .62E-07 | 0.000 | .14E-05 | 90.000 |
| 81. | 11058.670 | .317 | .11E-05 | 0.00 | .57E-07 | 0.000 | .14E-05 | 90.000 |
| 82. | 11059.680 | .281 | .11E-05 | 0.00 | .51E-07 | 0.000 | .14E-05 | 90.000 |
| 83. | 11060.560 | .246 | .11E-05 | 0.00 | .45E-07 | 0.000 | .14E-05 | 90.000 |
| 84. | 11061.330 | .210 | .11E-05 | 0.00 | .39E-07 | 0.000 | .14E-05 | 90.000 |
| 85. | 11061.980 | .175 | .11E-05 | 0.00 | .32E-07 | 0.000 | .14E-05 | 90.000 |
| 86. | 11062.510 | .140 | .11E-05 | 0.00 | .26E-07 | 0.000 | .14E-05 | 90.000 |
| 87. | 11062.930 | .105 | .11E-05 | 0.00 | .20E-07 | 0.000 | .14E-05 | 90.000 |
| 88. | 11063.220 | .070 | .11E-05 | 0.00 | .13E-07 | 0.000 | .14E-05 | 90.000 |
| 89. | 11063.400 | .035 | .11E-05 | 0.00 | .66E-08 | 0.000 | .14E-05 | 90.000 |
| 90. | 11063.460 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |
| 91. | 11063.400 | -.035 | .11E-05 | 0.00 | .66E-08 | -180.000 | .14E-05 | 90.000 |
| 92. | 11063.220 | -.070 | .11E-05 | 0.00 | .13E-07 | 180.000 | .14E-05 | 90.000 |
| 93. | 11062.930 | -.105 | .11E-05 | 0.00 | .20E-07 | 180.000 | .14E-05 | 90.000 |
| 94. | 11062.510 | -.140 | .11E-05 | 0.00 | .26E-07 | 180.000 | .14E-05 | 90.000 |
| 95. | 11061.980 | -.175 | .11E-05 | 0.00 | .32E-07 | 180.000 | .14E-05 | 90.000 |
| 96. | 11061.330 | -.210 | .11E-05 | 0.00 | .39E-07 | -180.000 | .14E-05 | 90.000 |
| 97. | 11060.560 | -.246 | .11E-05 | 0.00 | .45E-07 | -180.000 | .14E-05 | 90.000 |
| 98. | 11059.680 | -.281 | .11E-05 | 0.00 | .51E-07 | 180.000 | .14E-05 | 90.000 |
| 99. | 11058.670 | -.317 | .11E-05 | 0.00 | .57E-07 | -180.000 | .14E-05 | 90.000 |

110-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 11057.540 | -.353 | .11E-05 | 0.00 | .62E-07 | -180.000 | .14E-05 | 90.000 |
| 101. | 11056.290 | -.389 | .11E-05 | 0.00 | .68E-07 | -180.000 | .14E-05 | 90.000 |
| 102. | 11054.920 | -.426 | .11E-05 | 0.00 | .73E-07 | -180.000 | .14E-05 | 90.000 |
| 103. | 11053.420 | -.462 | .11E-05 | 0.00 | .78E-07 | -180.000 | .14E-05 | 90.000 |
| 104. | 11051.800 | -.500 | .11E-05 | 0.00 | .83E-07 | -180.000 | .14E-05 | 90.000 |
| 105. | 11050.060 | -.537 | .11E-05 | 0.00 | .87E-07 | -180.000 | .14E-05 | 90.000 |
| 106. | 11048.190 | -.575 | .11E-05 | 0.00 | .91E-07 | -180.000 | .14E-05 | 90.000 |
| 107. | 11046.190 | -.614 | .11E-05 | 0.00 | .95E-07 | -180.000 | .14E-05 | 90.000 |
| 108. | 11044.060 | -.653 | .11E-05 | 0.00 | .98E-07 | -180.000 | .14E-05 | 90.000 |
| 109. | 11041.790 | -.692 | .11E-05 | 0.00 | .10E-06 | -180.000 | .14E-05 | 90.000 |
| 110. | 11039.400 | -.733 | .11E-05 | 0.00 | .10E-06 | -180.000 | .14E-05 | 90.000 |
| 111. | 11036.860 | -.774 | .11E-05 | 0.00 | .11E-06 | -180.000 | .14E-05 | 90.000 |
| 112. | 11034.190 | -.816 | .11E-05 | 0.00 | .11E-06 | -180.000 | .14E-05 | 90.000 |
| 113. | 11031.380 | -.858 | .11E-05 | 0.00 | .11E-06 | -180.000 | .14E-05 | 90.000 |
| 114. | 11028.420 | -.902 | .11E-05 | 0.00 | .11E-06 | -180.000 | .14E-05 | 90.000 |
| 115. | 11025.320 | -.947 | .11E-05 | 0.00 | .11E-06 | -180.000 | .14E-05 | 90.000 |
| 116. | 11022.060 | -.992 | .11E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 117. | 11018.650 | -1.039 | .11E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 118. | 11015.080 | -1.087 | .10E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 119. | 11011.350 | -1.136 | .10E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 120. | 11007.460 | -1.187 | .10E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 121. | 11003.390 | -1.239 | .10E-05 | 0.00 | .11E-06 | -180.000 | .13E-05 | 90.000 |
| 122. | 10999.150 | -1.292 | .10E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 123. | 10994.730 | -1.347 | .10E-05 | 0.00 | .11E-06 | 180.000 | .13E-05 | 90.000 |
| 124. | 10990.120 | -1.404 | .10E-05 | 0.00 | .10E-06 | 180.000 | .13E-05 | 90.000 |
| 125. | 10985.330 | -1.462 | .10E-05 | 0.00 | .10E-06 | 180.000 | .13E-05 | 90.000 |
| 126. | 10980.340 | -1.522 | .10E-05 | 0.00 | .98E-07 | -180.000 | .13E-05 | 90.000 |
| 127. | 10975.140 | -1.583 | .10E-05 | 0.00 | .95E-07 | 180.000 | .13E-05 | 90.000 |
| 128. | 10969.740 | -1.647 | .10E-05 | 0.00 | .92E-07 | 180.000 | .14E-05 | 90.000 |
| 129. | 10964.130 | -1.712 | .10E-05 | 0.00 | .89E-07 | 180.000 | .14E-05 | 90.000 |
| 130. | 10958.300 | -1.780 | .10E-05 | 0.00 | .85E-07 | 180.000 | .14E-05 | 90.000 |
| 131. | 10952.240 | -1.849 | .10E-05 | 0.00 | .82E-07 | 180.000 | .14E-05 | 90.000 |
| 132. | 10945.960 | -1.919 | .10E-05 | 0.00 | .78E-07 | -180.000 | .14E-05 | 90.000 |
| 133. | 10939.440 | -1.991 | .10E-05 | 0.00 | .75E-07 | -180.000 | .14E-05 | 90.000 |
| 134. | 10932.680 | -2.064 | .10E-05 | 0.00 | .71E-07 | 180.000 | .14E-05 | 90.000 |
| 135. | 10925.680 | -2.138 | .10E-05 | 0.00 | .67E-07 | 180.000 | .14E-05 | 90.000 |
| 136. | 10918.440 | -2.213 | .10E-05 | 0.00 | .64E-07 | -180.000 | .14E-05 | 90.000 |
| 137. | 10910.960 | -2.287 | .10E-05 | 0.00 | .60E-07 | -180.000 | .14E-05 | 90.000 |
| 138. | 10903.230 | -2.361 | .99E-06 | 0.00 | .57E-07 | -180.000 | .14E-05 | 90.000 |
| 139. | 10895.270 | -2.434 | .99E-06 | 0.00 | .53E-07 | 180.000 | .14E-05 | 90.000 |
| 140. | 10887.070 | -2.504 | .99E-06 | 0.00 | .50E-07 | 180.000 | .14E-05 | 90.000 |
| 141. | 10878.650 | -2.573 | .99E-06 | 0.00 | .46E-07 | 180.000 | .14E-05 | 90.000 |
| 142. | 10870.010 | -2.638 | .99E-06 | 0.00 | .43E-07 | 180.000 | .14E-05 | 90.000 |
| 143. | 10861.170 | -2.700 | .99E-06 | 0.00 | .40E-07 | 180.000 | .14E-05 | 90.000 |
| 144. | 10852.140 | -2.757 | .99E-06 | 0.00 | .37E-07 | -180.000 | .14E-05 | 90.000 |
| 145. | 10842.930 | -2.809 | .99E-06 | 0.00 | .34E-07 | 180.000 | .14E-05 | 90.000 |
| 146. | 10833.570 | -2.856 | .99E-06 | 0.00 | .31E-07 | -180.000 | .14E-05 | 90.000 |
| 147. | 10824.080 | -2.896 | .98E-06 | 0.00 | .28E-07 | 180.000 | .14E-05 | 90.000 |
| 148. | 10814.470 | -2.929 | .98E-06 | 0.00 | .26E-07 | 180.000 | .14E-05 | 90.000 |
| 149. | 10804.770 | -2.955 | .98E-06 | 0.00 | .23E-07 | 180.000 | .14E-05 | 90.000 |

110-CUT DIAMOND

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 10795.010 | -2.973 | .98E-06 | 0.00 | .21E-07 | 180.000 | .14E-05 | 90.000 |
| 151. | 10785.210 | -2.983 | .98E-06 | 0.00 | .18E-07 | 180.000 | .14E-05 | 90.000 |
| 152. | 10775.400 | -2.985 | .98E-06 | 0.00 | .16E-07 | 180.000 | .14E-05 | 90.000 |
| 153. | 10765.610 | -2.978 | .98E-06 | 0.00 | .14E-07 | 180.000 | .14E-05 | 90.000 |
| 154. | 10755.860 | -2.963 | .98E-06 | 0.00 | .12E-07 | 180.000 | .14E-05 | 90.000 |
| 155. | 10746.190 | -2.938 | .98E-06 | 0.00 | .10E-07 | 180.000 | .14E-05 | 90.000 |
| 156. | 10736.610 | -2.905 | .98E-06 | 0.00 | .88E-08 | 180.000 | .14E-05 | 90.000 |
| 157. | 10727.170 | -2.863 | .98E-06 | 0.00 | .72E-08 | 180.000 | .14E-05 | 90.000 |
| 158. | 10717.900 | -2.812 | .98E-06 | 0.00 | .58E-08 | 180.000 | .14E-05 | 90.000 |
| 159. | 10708.810 | -2.753 | .98E-06 | 0.00 | .46E-08 | 180.000 | .14E-05 | 90.000 |
| 160. | 10699.930 | -2.685 | .98E-06 | 0.00 | .34E-08 | 180.000 | .14E-05 | 90.000 |
| 161. | 10691.300 | -2.608 | .98E-06 | 0.00 | .24E-08 | 180.000 | .14E-05 | 90.000 |
| 162. | 10682.940 | -2.523 | .98E-06 | 0.00 | .15E-08 | 180.000 | .14E-05 | 90.000 |
| 163. | 10674.880 | -2.430 | .98E-06 | 0.00 | .71E-09 | 180.000 | .14E-05 | 90.000 |
| 164. | 10667.130 | -2.330 | .98E-06 | 0.00 | .36E-10 | 180.000 | .14E-05 | 90.000 |
| 165. | 10659.730 | -2.222 | .98E-06 | 0.00 | .53E-09 | 0.000 | .14E-05 | 90.000 |
| 166. | 10652.700 | -2.108 | .98E-06 | 0.00 | .99E-09 | 0.000 | .14E-05 | 90.000 |
| 167. | 10646.060 | -1.986 | .98E-06 | 0.00 | .14E-08 | 0.000 | .14E-05 | 90.000 |
| 168. | 10639.820 | -1.858 | .98E-06 | 0.00 | .16E-08 | 0.000 | .14E-05 | 90.000 |
| 169. | 10634.010 | -1.725 | .98E-06 | 0.00 | .18E-08 | 0.000 | .14E-05 | 90.000 |
| 170. | 10628.650 | -1.586 | .98E-06 | 0.00 | .19E-08 | 0.000 | .14E-05 | 90.000 |
| 171. | 10623.740 | -1.442 | .98E-06 | 0.00 | .19E-08 | 0.000 | .14E-05 | 90.000 |
| 172. | 10619.320 | -1.293 | .98E-06 | 0.00 | .19E-08 | 0.000 | .14E-05 | 90.000 |
| 173. | 10615.380 | -1.141 | .98E-06 | 0.00 | .18E-08 | 0.000 | .14E-05 | 90.000 |
| 174. | 10611.940 | -.985 | .98E-06 | 0.00 | .16E-08 | 0.000 | .14E-05 | 90.000 |
| 175. | 10609.020 | -.825 | .98E-06 | 0.00 | .14E-08 | 0.000 | .14E-05 | 90.000 |
| 176. | 10606.610 | -.663 | .98E-06 | 0.00 | .12E-08 | 0.000 | .14E-05 | 90.000 |
| 177. | 10604.730 | -.499 | .98E-06 | 0.00 | .92E-09 | 0.000 | .14E-05 | 90.000 |
| 178. | 10603.390 | -.334 | .98E-06 | 0.00 | .63E-09 | 0.000 | .14E-05 | 90.000 |
| 179. | 10602.580 | -.167 | .98E-06 | 0.00 | .32E-09 | 0.000 | .14E-05 | 90.000 |
| 180. | 10602.310 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .14E-05 | 90.000 |

Z-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3201.974 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 1. | 3201.982 | .017 | .20E-05 | 0.00 | .11E-08 | 180.000 | .30E-05 | 90.000 |
| 2. | 3202.006 | .033 | .20E-05 | 0.00 | .22E-08 | 180.000 | .30E-05 | 90.000 |
| 3. | 3202.047 | .050 | .20E-05 | 0.00 | .33E-08 | 180.000 | .30E-05 | 90.000 |
| 4. | 3202.104 | .066 | .20E-05 | 0.00 | .43E-08 | 180.000 | .30E-05 | 90.000 |
| 5. | 3202.176 | .082 | .20E-05 | 0.00 | .53E-08 | 180.000 | .30E-05 | 90.000 |
| 6. | 3202.265 | .098 | .20E-05 | 0.00 | .63E-08 | 180.000 | .30E-05 | 90.000 |
| 7. | 3202.368 | .114 | .20E-05 | 0.00 | .72E-08 | 180.000 | .30E-05 | 90.000 |
| 8. | 3202.486 | .129 | .20E-05 | 0.00 | .81E-08 | 180.000 | .30E-05 | 90.000 |
| 9. | 3202.619 | .143 | .20E-05 | 0.00 | .89E-08 | 180.000 | .30E-05 | 90.000 |
| 10. | 3202.765 | .157 | .20E-05 | 0.00 | .97E-08 | 180.000 | .30E-05 | 90.000 |
| 11. | 3202.924 | .170 | .20E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 12. | 3203.096 | .182 | .20E-05 | 0.00 | .11E-07 | 180.000 | .30E-05 | 90.000 |
| 13. | 3203.279 | .194 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 14. | 3203.474 | .205 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 15. | 3203.679 | .215 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 16. | 3203.893 | .224 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 17. | 3204.115 | .232 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 18. | 3204.345 | .239 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 19. | 3204.581 | .245 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 20. | 3204.823 | .250 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 21. | 3205.069 | .254 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 22. | 3205.318 | .256 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 23. | 3205.568 | .258 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 24. | 3205.820 | .258 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 25. | 3206.071 | .257 | .20E-05 | 0.00 | .11E-07 | 180.000 | .30E-05 | 90.000 |
| 26. | 3206.321 | .254 | .20E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 27. | 3206.568 | .251 | .20E-05 | 0.00 | .99E-08 | 180.000 | .30E-05 | 90.000 |
| 28. | 3206.810 | .246 | .20E-05 | 0.00 | .93E-08 | 180.000 | .30E-05 | 90.000 |
| 29. | 3207.047 | .240 | .20E-05 | 0.00 | .87E-08 | 180.000 | .30E-05 | 90.000 |
| 30. | 3207.278 | .232 | .20E-05 | 0.00 | .80E-08 | 180.000 | .30E-05 | 90.000 |
| 31. | 3207.501 | .223 | .20E-05 | 0.00 | .74E-08 | 180.000 | .30E-05 | 90.000 |
| 32. | 3207.714 | .214 | .20E-05 | 0.00 | .67E-08 | 180.000 | .30E-05 | 90.000 |
| 33. | 3207.918 | .202 | .20E-05 | 0.00 | .61E-08 | 180.000 | .30E-05 | 90.000 |
| 34. | 3208.110 | .190 | .20E-05 | 0.00 | .54E-08 | 180.000 | .30E-05 | 90.000 |
| 35. | 3208.289 | .177 | .20E-05 | 0.00 | .48E-08 | 180.000 | .30E-05 | 90.000 |
| 36. | 3208.455 | .162 | .20E-05 | 0.00 | .42E-08 | 180.000 | .30E-05 | 90.000 |
| 37. | 3208.606 | .147 | .20E-05 | 0.00 | .36E-08 | 180.000 | .30E-05 | 90.000 |
| 38. | 3208.742 | .131 | .20E-05 | 0.00 | .31E-08 | 180.000 | .30E-05 | 90.000 |
| 39. | 3208.862 | .114 | .20E-05 | 0.00 | .26E-08 | 180.000 | .30E-05 | 90.000 |
| 40. | 3208.964 | .096 | .20E-05 | 0.00 | .21E-08 | 180.000 | .30E-05 | 90.000 |
| 41. | 3209.049 | .077 | .20E-05 | 0.00 | .16E-08 | 180.000 | .30E-05 | 90.000 |
| 42. | 3209.115 | .059 | .20E-05 | 0.00 | .12E-08 | 180.000 | .30E-05 | 90.000 |
| 43. | 3209.163 | .039 | .20E-05 | 0.00 | .79E-09 | 180.000 | .30E-05 | 90.000 |
| 44. | 3209.192 | .020 | .20E-05 | 0.00 | .39E-09 | 180.000 | .30E-05 | 90.000 |
| 45. | 3209.201 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 46. | 3209.192 | -.020 | .20E-05 | 0.00 | .39E-09 | 0.000 | .30E-05 | 90.000 |
| 47. | 3209.163 | -.039 | .20E-05 | 0.00 | .79E-09 | 0.000 | .30E-05 | 90.000 |
| 48. | 3209.115 | -.059 | .20E-05 | 0.00 | .12E-08 | 0.000 | .30E-05 | 90.000 |
| 49. | 3209.049 | -.077 | .20E-05 | 0.00 | .16E-08 | 0.000 | .30E-05 | 90.000 |

Z-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3208.964 | -.096 | .20E-05 | 0.00 | .21E-08 | 0.000 | .30E-05 | 90.000 |
| 51. | 3208.862 | -.114 | .20E-05 | 0.00 | .26E-08 | 0.000 | .30E-05 | 90.000 |
| 52. | 3208.742 | -.131 | .20E-05 | 0.00 | .31E-08 | 0.000 | .30E-05 | 90.000 |
| 53. | 3208.606 | -.147 | .20E-05 | 0.00 | .36E-08 | 0.000 | .30E-05 | 90.000 |
| 54. | 3208.455 | -.162 | .20E-05 | 0.00 | .42E-08 | 0.000 | .30E-05 | 90.000 |
| 55. | 3208.289 | -.177 | .20E-05 | 0.00 | .48E-08 | 0.000 | .30E-05 | 90.000 |
| 56. | 3208.110 | -.190 | .20E-05 | 0.00 | .54E-08 | 0.000 | .30E-05 | 90.000 |
| 57. | 3207.918 | -.202 | .20E-05 | 0.00 | .61E-08 | 0.000 | .30E-05 | 90.000 |
| 58. | 3207.714 | -.214 | .20E-05 | 0.00 | .67E-08 | 0.000 | .30E-05 | 90.000 |
| 59. | 3207.501 | -.223 | .20E-05 | 0.00 | .74E-08 | 0.000 | .30E-05 | 90.000 |
| 60. | 3207.278 | -.232 | .20E-05 | 0.00 | .80E-08 | 0.000 | .30E-05 | 90.000 |
| 61. | 3207.047 | -.240 | .20E-05 | 0.00 | .87E-08 | 0.000 | .30E-05 | 90.000 |
| 62. | 3206.810 | -.246 | .20E-05 | 0.00 | .93E-08 | 0.000 | .30E-05 | 90.000 |
| 63. | 3206.568 | -.251 | .20E-05 | 0.00 | .99E-08 | 0.000 | .30E-05 | 90.000 |
| 64. | 3206.321 | -.254 | .20E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 65. | 3206.071 | -.257 | .20E-05 | 0.00 | .11E-07 | 0.000 | .30E-05 | 90.000 |
| 66. | 3205.820 | -.258 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 67. | 3205.568 | -.258 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 68. | 3205.318 | -.256 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 69. | 3205.069 | -.254 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 70. | 3204.823 | -.250 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 71. | 3204.581 | -.245 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 72. | 3204.345 | -.239 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 73. | 3204.115 | -.232 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 74. | 3203.893 | -.224 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 75. | 3203.679 | -.215 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 76. | 3203.474 | -.205 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 77. | 3203.279 | -.194 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 78. | 3203.096 | -.182 | .20E-05 | 0.00 | .11E-07 | 0.000 | .30E-05 | 90.000 |
| 79. | 3202.924 | -.170 | .20E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 80. | 3202.765 | -.157 | .20E-05 | 0.00 | .97E-08 | 0.000 | .30E-05 | 90.000 |
| 81. | 3202.619 | -.143 | .20E-05 | 0.00 | .89E-08 | 0.000 | .30E-05 | 90.000 |
| 82. | 3202.486 | -.129 | .20E-05 | 0.00 | .81E-08 | 0.000 | .30E-05 | 90.000 |
| 83. | 3202.368 | -.114 | .20E-05 | 0.00 | .72E-08 | 0.000 | .30E-05 | 90.000 |
| 84. | 3202.265 | -.098 | .20E-05 | 0.00 | .63E-08 | 0.000 | .30E-05 | 90.000 |
| 85. | 3202.176 | -.082 | .20E-05 | 0.00 | .53E-08 | 0.000 | .30E-05 | 90.000 |
| 86. | 3202.104 | -.066 | .20E-05 | 0.00 | .43E-08 | 0.000 | .30E-05 | 90.000 |
| 87. | 3202.047 | -.050 | .20E-05 | 0.00 | .33E-08 | 0.000 | .30E-05 | 90.000 |
| 88. | 3202.006 | -.033 | .20E-05 | 0.00 | .22E-08 | 0.000 | .30E-05 | 90.000 |
| 89. | 3201.982 | -.017 | .20E-05 | 0.00 | .11E-08 | 0.000 | .30E-05 | 90.000 |
| 90. | 3201.974 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 91. | 3201.982 | .017 | .20E-05 | 0.00 | .11E-08 | 180.000 | .30E-05 | 90.000 |
| 92. | 3202.006 | .033 | .20E-05 | 0.00 | .22E-08 | 180.000 | .30E-05 | 90.000 |
| 93. | 3202.047 | .050 | .20E-05 | 0.00 | .33E-08 | 180.000 | .30E-05 | 90.000 |
| 94. | 3202.104 | .066 | .20E-05 | 0.00 | .43E-08 | 180.000 | .30E-05 | 90.000 |
| 95. | 3202.176 | .082 | .20E-05 | 0.00 | .53E-08 | 180.000 | .30E-05 | 90.000 |
| 96. | 3202.265 | .098 | .20E-05 | 0.00 | .63E-08 | 180.000 | .30E-05 | 90.000 |
| 97. | 3202.368 | .114 | .20E-05 | 0.00 | .72E-08 | 180.000 | .30E-05 | 90.000 |
| 98. | 3202.486 | .129 | .20E-05 | 0.00 | .81E-08 | 180.000 | .30E-05 | 90.000 |
| 99. | 3202.619 | .143 | .20E-05 | 0.00 | .89E-08 | 180.000 | .30E-05 | 90.000 |

Z-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3202.765 | .197 | .20E-05 | 0.00 | .97E-06 | 180.000 | .30E-05 | 90.000 |
| 101. | 3202.924 | .170 | .20E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 102. | 3203.096 | .182 | .20E-05 | 0.00 | .11E-07 | 180.000 | .30E-05 | 90.000 |
| 103. | 3203.279 | .194 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 104. | 3203.474 | .205 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 105. | 3203.679 | .215 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 106. | 3203.893 | .224 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 107. | 3204.115 | .232 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 108. | 3204.345 | .239 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 109. | 3204.581 | .245 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 110. | 3204.823 | .250 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 111. | 3205.069 | .254 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 112. | 3205.318 | .256 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 113. | 3205.568 | .258 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 114. | 3205.820 | .258 | .20E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 115. | 3206.071 | .257 | .20E-05 | 0.00 | .11E-07 | 180.000 | .30E-05 | 90.000 |
| 116. | 3206.321 | .254 | .20E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 117. | 3206.568 | .251 | .20E-05 | 0.00 | .99E-06 | 180.000 | .30E-05 | 90.000 |
| 118. | 3206.810 | .246 | .20E-05 | 0.00 | .93E-08 | 180.000 | .30E-05 | 90.000 |
| 119. | 3207.047 | .240 | .20E-05 | 0.00 | .87E-06 | 180.000 | .30E-05 | 90.000 |
| 120. | 3207.278 | .232 | .20E-05 | 0.00 | .80E-08 | 180.000 | .30E-05 | 90.000 |
| 121. | 3207.501 | .223 | .20E-05 | 0.00 | .74E-08 | 180.000 | .30E-05 | 90.000 |
| 122. | 3207.714 | .214 | .20E-05 | 0.00 | .67E-08 | 180.000 | .30E-05 | 90.000 |
| 123. | 3207.918 | .202 | .20E-05 | 0.00 | .61E-08 | 180.000 | .30E-05 | 90.000 |
| 124. | 3208.110 | .190 | .20E-05 | 0.00 | .54E-08 | 180.000 | .30E-05 | 90.000 |
| 125. | 3208.289 | .177 | .20E-05 | 0.00 | .48E-08 | 180.000 | .30E-05 | 90.000 |
| 126. | 3208.455 | .162 | .20E-05 | 0.00 | .42E-08 | 180.000 | .30E-05 | 90.000 |
| 127. | 3208.606 | .147 | .20E-05 | 0.00 | .36E-06 | 180.000 | .30E-05 | 90.000 |
| 128. | 3208.742 | .131 | .20E-05 | 0.00 | .31E-08 | 180.000 | .30E-05 | 90.000 |
| 129. | 3208.862 | .114 | .20E-05 | 0.00 | .26E-08 | 180.000 | .30E-05 | 90.000 |
| 130. | 3208.964 | .096 | .20E-05 | 0.00 | .21E-08 | 180.000 | .30E-05 | 90.000 |
| 131. | 3209.049 | .077 | .20E-05 | 0.00 | .16E-06 | 180.000 | .30E-05 | 90.000 |
| 132. | 3209.115 | .059 | .20E-05 | 0.00 | .12E-08 | 180.000 | .30E-05 | 90.000 |
| 133. | 3209.163 | .039 | .20E-05 | 0.00 | .79E-09 | 180.000 | .30E-05 | 90.000 |
| 134. | 3209.192 | .020 | .20E-05 | 0.00 | .39E-09 | 180.000 | .30E-05 | 90.000 |
| 135. | 3209.201 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 136. | 3209.192 | -.020 | .20E-05 | 0.00 | .39E-09 | 0.000 | .30E-05 | 90.000 |
| 137. | 3209.163 | -.039 | .20E-05 | 0.00 | .79E-09 | 0.000 | .30E-05 | 90.000 |
| 138. | 3209.115 | -.059 | .20E-05 | 0.00 | .12E-08 | 0.000 | .30E-05 | 90.000 |
| 139. | 3209.049 | -.077 | .20E-05 | 0.00 | .16E-06 | 0.000 | .30E-05 | 90.000 |
| 140. | 3208.964 | -.096 | .20E-05 | 0.00 | .21E-08 | 0.000 | .30E-05 | 90.000 |
| 141. | 3208.862 | -.114 | .20E-05 | 0.00 | .26E-06 | 0.000 | .30E-05 | 90.000 |
| 142. | 3208.742 | -.131 | .20E-05 | 0.00 | .31E-08 | 0.000 | .30E-05 | 90.000 |
| 143. | 3208.606 | -.147 | .20E-05 | 0.00 | .36E-06 | 0.000 | .30E-05 | 90.000 |
| 144. | 3208.455 | -.162 | .20E-05 | 0.00 | .42E-08 | 0.000 | .30E-05 | 90.000 |
| 145. | 3208.289 | -.177 | .20E-05 | 0.00 | .48E-08 | 0.000 | .30E-05 | 90.000 |
| 146. | 3208.110 | -.190 | .20E-05 | 0.00 | .54E-08 | 0.000 | .30E-05 | 90.000 |
| 147. | 3207.918 | -.202 | .20E-05 | 0.00 | .61E-08 | 0.000 | .30E-05 | 90.000 |
| 148. | 3207.714 | -.214 | .20E-05 | 0.00 | .67E-08 | 0.000 | .30E-05 | 90.000 |
| 149. | 3207.501 | -.223 | .20E-05 | 0.00 | .74E-06 | 0.000 | .30E-05 | 90.000 |

Z-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3207.278 | -.232 | .20E-05 | 0.00 | .80E-08 | 0.000 | .30E-05 | 90.000 |
| 151. | 3207.047 | -.240 | .20E-05 | 0.00 | .87E-08 | 0.000 | .30E-05 | 90.000 |
| 152. | 3206.810 | -.246 | .20E-05 | 0.00 | .93E-08 | 0.000 | .30E-05 | 90.000 |
| 153. | 3206.568 | -.251 | .20E-05 | 0.00 | .99E-08 | 0.000 | .30E-05 | 90.000 |
| 154. | 3206.321 | -.254 | .20E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 155. | 3206.071 | -.257 | .20E-05 | 0.00 | .11E-07 | 0.000 | .30E-05 | 90.000 |
| 156. | 3205.820 | -.258 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 157. | 3205.568 | -.258 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 158. | 3205.318 | -.256 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 159. | 3205.069 | -.254 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 160. | 3204.823 | -.250 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 161. | 3204.581 | -.245 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 162. | 3204.345 | -.239 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 163. | 3204.115 | -.232 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 164. | 3203.893 | -.224 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 165. | 3203.679 | -.215 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 166. | 3203.474 | -.205 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 167. | 3203.279 | -.194 | .20E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 168. | 3203.096 | -.182 | .20E-05 | 0.00 | .11E-07 | 0.000 | .30E-05 | 90.000 |
| 169. | 3202.924 | -.170 | .20E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 170. | 3202.765 | -.157 | .20E-05 | 0.00 | .97E-08 | 0.000 | .30E-05 | 90.000 |
| 171. | 3202.619 | -.143 | .20E-05 | 0.00 | .89E-08 | 0.000 | .30E-05 | 90.000 |
| 172. | 3202.486 | -.129 | .20E-05 | 0.00 | .81E-08 | 0.000 | .30E-05 | 90.000 |
| 173. | 3202.368 | -.114 | .20E-05 | 0.00 | .72E-08 | 0.000 | .30E-05 | 90.000 |
| 174. | 3202.265 | -.098 | .20E-05 | 0.00 | .63E-08 | 0.000 | .30E-05 | 90.000 |
| 175. | 3202.176 | -.082 | .20E-05 | 0.00 | .53E-08 | 0.000 | .30E-05 | 90.000 |
| 176. | 3202.104 | -.066 | .20E-05 | 0.00 | .43E-08 | 0.000 | .30E-05 | 90.000 |
| 177. | 3202.047 | -.050 | .20E-05 | 0.00 | .33E-08 | 0.000 | .30E-05 | 90.000 |
| 178. | 3202.006 | -.033 | .20E-05 | 0.00 | .22E-08 | 0.000 | .30E-05 | 90.000 |
| 179. | 3201.982 | -.017 | .20E-05 | 0.00 | .11E-08 | 0.000 | .30E-05 | 90.000 |
| 180. | 3201.974 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |

110-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3158.788 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 1. | 3158.810 | .044 | .19E-05 | 0.00 | .17E-08 | 0.000 | .30E-05 | 90.000 |
| 2. | 3158.874 | .089 | .19E-05 | 0.00 | .35E-08 | 0.000 | .30E-05 | 90.000 |
| 3. | 3158.980 | .133 | .19E-05 | 0.00 | .52E-08 | 0.000 | .30E-05 | 90.000 |
| 4. | 3159.129 | .176 | .19E-05 | 0.00 | .69E-08 | 0.000 | .30E-05 | 90.000 |
| 5. | 3159.320 | .220 | .19E-05 | 0.00 | .87E-08 | 0.000 | .30E-05 | 90.000 |
| 6. | 3159.552 | .263 | .19E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 7. | 3159.825 | .305 | .19E-05 | 0.00 | .12E-07 | 0.000 | .30E-05 | 90.000 |
| 8. | 3160.138 | .346 | .19E-05 | 0.00 | .14E-07 | 0.000 | .30E-05 | 90.000 |
| 9. | 3160.491 | .387 | .19E-05 | 0.00 | .16E-07 | 0.000 | .30E-05 | 90.000 |
| 10. | 3160.882 | .426 | .19E-05 | 0.00 | .18E-07 | 0.000 | .30E-05 | 90.000 |
| 11. | 3161.311 | .465 | .19E-05 | 0.00 | .19E-07 | 0.000 | .30E-05 | 90.000 |
| 12. | 3161.777 | .502 | .19E-05 | 0.00 | .21E-07 | 0.000 | .30E-05 | 90.000 |
| 13. | 3162.278 | .538 | .19E-05 | 0.00 | .23E-07 | 0.000 | .30E-05 | 90.000 |
| 14. | 3162.814 | .573 | .19E-05 | 0.00 | .25E-07 | 0.000 | .30E-05 | 90.000 |
| 15. | 3163.382 | .607 | .19E-05 | 0.00 | .27E-07 | 0.000 | .30E-05 | 90.000 |
| 16. | 3163.983 | .639 | .19E-05 | 0.00 | .29E-07 | 0.000 | .30E-05 | 90.000 |
| 17. | 3164.614 | .670 | .19E-05 | 0.00 | .31E-07 | 0.000 | .30E-05 | 90.000 |
| 18. | 3165.274 | .699 | .19E-05 | 0.00 | .33E-07 | 0.000 | .30E-05 | 90.000 |
| 19. | 3165.961 | .726 | .19E-05 | 0.00 | .35E-07 | 0.000 | .30E-05 | 90.000 |
| 20. | 3166.674 | .752 | .19E-05 | 0.00 | .36E-07 | 0.000 | .30E-05 | 90.000 |
| 21. | 3167.411 | .776 | .19E-05 | 0.00 | .38E-07 | 0.000 | .30E-05 | 90.000 |
| 22. | 3168.171 | .798 | .19E-05 | 0.00 | .40E-07 | 0.000 | .30E-05 | 90.000 |
| 23. | 3168.951 | .818 | .19E-05 | 0.00 | .42E-07 | 0.000 | .30E-05 | 90.000 |
| 24. | 3169.750 | .837 | .19E-05 | 0.00 | .44E-07 | 0.000 | .30E-05 | 90.000 |
| 25. | 3170.567 | .854 | .19E-05 | 0.00 | .46E-07 | 0.000 | .30E-05 | 90.000 |
| 26. | 3171.399 | .869 | .19E-05 | 0.00 | .48E-07 | 0.000 | .30E-05 | 90.000 |
| 27. | 3172.245 | .882 | .19E-05 | 0.00 | .49E-07 | 0.000 | .30E-05 | 90.000 |
| 28. | 3173.102 | .893 | .19E-05 | 0.00 | .51E-07 | 0.000 | .30E-05 | 90.000 |
| 29. | 3173.970 | .902 | .19E-05 | 0.00 | .53E-07 | 0.000 | .30E-05 | 90.000 |
| 30. | 3174.847 | .910 | .19E-05 | 0.00 | .55E-07 | 0.000 | .30E-05 | 90.000 |
| 31. | 3175.729 | .915 | .19E-05 | 0.00 | .56E-07 | 0.000 | .30E-05 | 90.000 |
| 32. | 3176.617 | .919 | .19E-05 | 0.00 | .58E-07 | 0.000 | .30E-05 | 90.000 |
| 33. | 3177.508 | .922 | .19E-05 | 0.00 | .59E-07 | 0.000 | .30E-05 | 90.000 |
| 34. | 3178.401 | .922 | .19E-05 | 0.00 | .61E-07 | 0.000 | .30E-05 | 90.000 |
| 35. | 3179.294 | .921 | .19E-05 | 0.00 | .62E-07 | 0.000 | .30E-05 | 90.000 |
| 36. | 3180.186 | .919 | .20E-05 | 0.00 | .63E-07 | 0.000 | .30E-05 | 90.000 |
| 37. | 3181.074 | .915 | .20E-05 | 0.00 | .64E-07 | 0.000 | .30E-05 | 90.000 |
| 38. | 3181.959 | .910 | .20E-05 | 0.00 | .66E-07 | 0.000 | .30E-05 | 90.000 |
| 39. | 3182.837 | .903 | .20E-05 | 0.00 | .67E-07 | 0.000 | .30E-05 | 90.000 |
| 40. | 3183.709 | .895 | .20E-05 | 0.00 | .68E-07 | 0.000 | .30E-05 | 90.000 |
| 41. | 3184.573 | .886 | .20E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 42. | 3185.428 | .876 | .20E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 43. | 3186.273 | .865 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 44. | 3187.107 | .853 | .20E-05 | 0.00 | .71E-07 | 0.000 | .30E-05 | 90.000 |
| 45. | 3187.930 | .840 | .20E-05 | 0.00 | .71E-07 | 0.000 | .30E-05 | 90.000 |
| 46. | 3188.739 | .827 | .20E-05 | 0.00 | .72E-07 | 0.000 | .30E-05 | 90.000 |
| 47. | 3189.536 | .813 | .20E-05 | 0.00 | .72E-07 | 0.000 | .30E-05 | 90.000 |
| 48. | 3190.319 | .798 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 49. | 3191.087 | .783 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |

110-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3191.841 | .767 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 51. | 3192.579 | .751 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 52. | 3193.302 | .735 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 53. | 3194.008 | .718 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 54. | 3194.699 | .701 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 55. | 3195.372 | .684 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 56. | 3196.029 | .666 | .20E-05 | 0.00 | .73E-07 | 0.000 | .30E-05 | 90.000 |
| 57. | 3196.669 | .648 | .20E-05 | 0.00 | .72E-07 | 0.000 | .30E-05 | 90.000 |
| 58. | 3197.292 | .631 | .20E-05 | 0.00 | .72E-07 | 0.000 | .30E-05 | 90.000 |
| 59. | 3197.897 | .613 | .20E-05 | 0.00 | .71E-07 | 0.000 | .30E-05 | 90.000 |
| 60. | 3198.485 | .594 | .20E-05 | 0.00 | .71E-07 | 0.000 | .30E-05 | 90.000 |
| 61. | 3199.056 | .576 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 62. | 3199.608 | .558 | .20E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 63. | 3200.143 | .539 | .20E-05 | 0.00 | .68E-07 | 0.000 | .30E-05 | 90.000 |
| 64. | 3200.659 | .520 | .20E-05 | 0.00 | .67E-07 | 0.000 | .30E-05 | 90.000 |
| 65. | 3201.157 | .501 | .20E-05 | 0.00 | .66E-07 | 0.000 | .30E-05 | 90.000 |
| 66. | 3201.637 | .483 | .20E-05 | 0.00 | .65E-07 | 0.000 | .30E-05 | 90.000 |
| 67. | 3202.098 | .463 | .20E-05 | 0.00 | .63E-07 | 0.000 | .30E-05 | 90.000 |
| 68. | 3202.541 | .444 | .20E-05 | 0.00 | .62E-07 | 0.000 | .30E-05 | 90.000 |
| 69. | 3202.965 | .425 | .20E-05 | 0.00 | .60E-07 | 0.000 | .30E-05 | 90.000 |
| 70. | 3203.370 | .406 | .20E-05 | 0.00 | .58E-07 | 0.000 | .30E-05 | 90.000 |
| 71. | 3203.757 | .386 | .20E-05 | 0.00 | .56E-07 | 0.000 | .30E-05 | 90.000 |
| 72. | 3204.124 | .366 | .20E-05 | 0.00 | .54E-07 | 0.000 | .30E-05 | 90.000 |
| 73. | 3204.472 | .347 | .20E-05 | 0.00 | .52E-07 | 0.000 | .30E-05 | 90.000 |
| 74. | 3204.801 | .327 | .20E-05 | 0.00 | .49E-07 | 0.000 | .30E-05 | 90.000 |
| 75. | 3205.111 | .307 | .20E-05 | 0.00 | .47E-07 | 0.000 | .30E-05 | 90.000 |
| 76. | 3205.401 | .287 | .20E-05 | 0.00 | .44E-07 | 0.000 | .30E-05 | 90.000 |
| 77. | 3205.671 | .267 | .20E-05 | 0.00 | .42E-07 | 0.000 | .30E-05 | 90.000 |
| 78. | 3205.922 | .247 | .20E-05 | 0.00 | .39E-07 | 0.000 | .30E-05 | 90.000 |
| 79. | 3206.153 | .226 | .20E-05 | 0.00 | .36E-07 | 0.000 | .30E-05 | 90.000 |
| 80. | 3206.364 | .206 | .20E-05 | 0.00 | .33E-07 | 0.000 | .30E-05 | 90.000 |
| 81. | 3206.555 | .186 | .20E-05 | 0.00 | .30E-07 | 0.000 | .30E-05 | 90.000 |
| 82. | 3206.727 | .165 | .20E-05 | 0.00 | .27E-07 | 0.000 | .30E-05 | 90.000 |
| 83. | 3206.878 | .145 | .20E-05 | 0.00 | .24E-07 | 0.000 | .30E-05 | 90.000 |
| 84. | 3207.010 | .124 | .20E-05 | 0.00 | .20E-07 | 0.000 | .30E-05 | 90.000 |
| 85. | 3207.121 | .103 | .20E-05 | 0.00 | .17E-07 | 0.000 | .30E-05 | 90.000 |
| 86. | 3207.212 | .083 | .20E-05 | 0.00 | .14E-07 | 0.000 | .30E-05 | 90.000 |
| 87. | 3207.283 | .062 | .20E-05 | 0.00 | .10E-07 | 0.000 | .30E-05 | 90.000 |
| 88. | 3207.333 | .041 | .20E-05 | 0.00 | .69E-08 | 0.000 | .30E-05 | 90.000 |
| 89. | 3207.364 | .021 | .20E-05 | 0.00 | .35E-08 | 0.000 | .30E-05 | 90.000 |
| 90. | 3207.374 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 91. | 3207.364 | -.021 | .20E-05 | 0.00 | .35E-08 | 180.000 | .30E-05 | 90.000 |
| 92. | 3207.333 | -.041 | .20E-05 | 0.00 | .69E-08 | 180.000 | .30E-05 | 90.000 |
| 93. | 3207.283 | -.062 | .20E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 94. | 3207.212 | -.083 | .20E-05 | 0.00 | .14E-07 | 180.000 | .30E-05 | 90.000 |
| 95. | 3207.121 | -.103 | .20E-05 | 0.00 | .17E-07 | 180.000 | .30E-05 | 90.000 |
| 96. | 3207.010 | -.124 | .20E-05 | 0.00 | .20E-07 | 180.000 | .30E-05 | 90.000 |
| 97. | 3206.878 | -.145 | .20E-05 | 0.00 | .24E-07 | 180.000 | .30E-05 | 90.000 |
| 98. | 3206.727 | -.165 | .20E-05 | 0.00 | .27E-07 | 180.000 | .30E-05 | 90.000 |
| 99. | 3206.555 | -.186 | .20E-05 | 0.00 | .30E-07 | 180.000 | .30E-05 | 90.000 |

110-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3206.364 | -.206 | .20E-05 | 0.00 | .33E-07 | 180.000 | .30E-05 | 90.000 |
| 101. | 3206.153 | -.226 | .20E-05 | 0.00 | .36E-07 | 180.000 | .30E-05 | 90.000 |
| 102. | 3205.922 | -.247 | .20E-05 | 0.00 | .39E-07 | -180.000 | .30E-05 | 90.000 |
| 103. | 3205.671 | -.267 | .20E-05 | 0.00 | .42E-07 | 180.000 | .30E-05 | 90.000 |
| 104. | 3205.401 | -.287 | .20E-05 | 0.00 | .44E-07 | 180.000 | .30E-05 | 90.000 |
| 105. | 3205.111 | -.307 | .20E-05 | 0.00 | .47E-07 | -180.000 | .30E-05 | 90.000 |
| 106. | 3204.801 | -.327 | .20E-05 | 0.00 | .49E-07 | 180.000 | .30E-05 | 90.000 |
| 107. | 3204.472 | -.347 | .20E-05 | 0.00 | .52E-07 | 180.000 | .30E-05 | 90.000 |
| 108. | 3204.124 | -.366 | .20E-05 | 0.00 | .54E-07 | -180.000 | .30E-05 | 90.000 |
| 109. | 3203.757 | -.386 | .20E-05 | 0.00 | .56E-07 | 180.000 | .30E-05 | 90.000 |
| 110. | 3203.370 | -.406 | .20E-05 | 0.00 | .58E-07 | -180.000 | .30E-05 | 90.000 |
| 111. | 3202.965 | -.425 | .20E-05 | 0.00 | .60E-07 | 180.000 | .30E-05 | 90.000 |
| 112. | 3202.541 | -.444 | .20E-05 | 0.00 | .62E-07 | -180.000 | .30E-05 | 90.000 |
| 113. | 3202.098 | -.463 | .20E-05 | 0.00 | .63E-07 | -180.000 | .30E-05 | 90.000 |
| 114. | 3201.637 | -.483 | .20E-05 | 0.00 | .65E-07 | 180.000 | .30E-05 | 90.000 |
| 115. | 3201.157 | -.501 | .20E-05 | 0.00 | .66E-07 | 180.000 | .30E-05 | 90.000 |
| 116. | 3200.659 | -.520 | .20E-05 | 0.00 | .67E-07 | -180.000 | .30E-05 | 90.000 |
| 117. | 3200.143 | -.539 | .20E-05 | 0.00 | .68E-07 | 180.000 | .30E-05 | 90.000 |
| 118. | 3199.608 | -.558 | .20E-05 | 0.00 | .69E-07 | 180.000 | .30E-05 | 90.000 |
| 119. | 3199.056 | -.576 | .20E-05 | 0.00 | .70E-07 | -180.000 | .30E-05 | 90.000 |
| 120. | 3198.485 | -.594 | .20E-05 | 0.00 | .71E-07 | -180.000 | .30E-05 | 90.000 |
| 121. | 3197.897 | -.613 | .20E-05 | 0.00 | .71E-07 | 180.000 | .30E-05 | 90.000 |
| 122. | 3197.292 | -.631 | .20E-05 | 0.00 | .72E-07 | -180.000 | .30E-05 | 90.000 |
| 123. | 3196.669 | -.648 | .20E-05 | 0.00 | .72E-07 | -180.000 | .30E-05 | 90.000 |
| 124. | 3196.029 | -.666 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 125. | 3195.372 | -.684 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 126. | 3194.699 | -.701 | .20E-05 | 0.00 | .73E-07 | -180.000 | .30E-05 | 90.000 |
| 127. | 3194.008 | -.718 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 128. | 3193.302 | -.735 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 129. | 3192.579 | -.751 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 130. | 3191.841 | -.767 | .20E-05 | 0.00 | .73E-07 | -180.000 | .30E-05 | 90.000 |
| 131. | 3191.087 | -.783 | .20E-05 | 0.00 | .73E-07 | 180.000 | .30E-05 | 90.000 |
| 132. | 3190.319 | -.798 | .20E-05 | 0.00 | .73E-07 | -180.000 | .30E-05 | 90.000 |
| 133. | 3189.536 | -.813 | .20E-05 | 0.00 | .72E-07 | 180.000 | .30E-05 | 90.000 |
| 134. | 3188.739 | -.827 | .20E-05 | 0.00 | .72E-07 | 180.000 | .30E-05 | 90.000 |
| 135. | 3187.930 | -.840 | .20E-05 | 0.00 | .71E-07 | 180.000 | .30E-05 | 90.000 |
| 136. | 3187.107 | -.853 | .20E-05 | 0.00 | .71E-07 | -180.000 | .30E-05 | 90.000 |
| 137. | 3186.273 | -.865 | .20E-05 | 0.00 | .70E-07 | -180.000 | .30E-05 | 90.000 |
| 138. | 3185.428 | -.876 | .20E-05 | 0.00 | .69E-07 | 180.000 | .30E-05 | 90.000 |
| 139. | 3184.573 | -.886 | .20E-05 | 0.00 | .69E-07 | -180.000 | .30E-05 | 90.000 |
| 140. | 3183.709 | -.895 | .20E-05 | 0.00 | .68E-07 | 180.000 | .30E-05 | 90.000 |
| 141. | 3182.837 | -.903 | .20E-05 | 0.00 | .67E-07 | -180.000 | .30E-05 | 90.000 |
| 142. | 3181.959 | -.910 | .20E-05 | 0.00 | .66E-07 | 180.000 | .30E-05 | 90.000 |
| 143. | 3181.074 | -.915 | .20E-05 | 0.00 | .64E-07 | 180.000 | .30E-05 | 90.000 |
| 144. | 3180.186 | -.919 | .20E-05 | 0.00 | .63E-07 | 180.000 | .30E-05 | 90.000 |
| 145. | 3179.294 | -.921 | .19E-05 | 0.00 | .62E-07 | 180.000 | .30E-05 | 90.000 |
| 146. | 3178.401 | -.922 | .19E-05 | 0.00 | .61E-07 | 180.000 | .30E-05 | 90.000 |
| 147. | 3177.508 | -.922 | .19E-05 | 0.00 | .59E-07 | 180.000 | .30E-05 | 90.000 |
| 148. | 3176.617 | -.919 | .19E-05 | 0.00 | .58E-07 | -180.000 | .30E-05 | 90.000 |
| 149. | 3175.729 | -.915 | .19E-05 | 0.00 | .56E-07 | 180.000 | .30E-05 | 90.000 |

110-CUT EUROPIUM IRON GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3174.847 | -.910 | .19E-05 | 0.00 | .55E-07 | 180.000 | .30E-05 | 90.000 |
| 151. | 3173.970 | -.902 | .19E-05 | 0.00 | .53E-07 | 180.000 | .30E-05 | 90.000 |
| 152. | 3173.102 | -.893 | .19E-05 | 0.00 | .51E-07 | 180.000 | .30E-05 | 90.000 |
| 153. | 3172.245 | -.882 | .19E-05 | 0.00 | .49E-07 | 180.000 | .30E-05 | 90.000 |
| 154. | 3171.399 | -.869 | .19E-05 | 0.00 | .48E-07 | 180.000 | .30E-05 | 90.000 |
| 155. | 3170.567 | -.854 | .19E-05 | 0.00 | .46E-07 | 180.000 | .30E-05 | 90.000 |
| 156. | 3169.750 | -.837 | .19E-05 | 0.00 | .44E-07 | 180.000 | .30E-05 | 90.000 |
| 157. | 3168.951 | -.818 | .19E-05 | 0.00 | .42E-07 | 180.000 | .30E-05 | 90.000 |
| 158. | 3168.171 | -.798 | .19E-05 | 0.00 | .40E-07 | 180.000 | .30E-05 | 90.000 |
| 159. | 3167.411 | -.776 | .19E-05 | 0.00 | .38E-07 | 180.000 | .30E-05 | 90.000 |
| 160. | 3166.674 | -.752 | .19E-05 | 0.00 | .36E-07 | 180.000 | .30E-05 | 90.000 |
| 161. | 3165.961 | -.726 | .19E-05 | 0.00 | .35E-07 | 180.000 | .30E-05 | 90.000 |
| 162. | 3165.274 | -.699 | .19E-05 | 0.00 | .33E-07 | 180.000 | .30E-05 | 90.000 |
| 163. | 3164.614 | -.670 | .19E-05 | 0.00 | .31E-07 | 180.000 | .30E-05 | 90.000 |
| 164. | 3163.983 | -.639 | .19E-05 | 0.00 | .29E-07 | 180.000 | .30E-05 | 90.000 |
| 165. | 3163.382 | -.607 | .19E-05 | 0.00 | .27E-07 | 180.000 | .30E-05 | 90.000 |
| 166. | 3162.814 | -.573 | .19E-05 | 0.00 | .25E-07 | 180.000 | .30E-05 | 90.000 |
| 167. | 3162.278 | -.538 | .19E-05 | 0.00 | .23E-07 | 180.000 | .30E-05 | 90.000 |
| 168. | 3161.777 | -.502 | .19E-05 | 0.00 | .21E-07 | 180.000 | .30E-05 | 90.000 |
| 169. | 3161.311 | -.465 | .19E-05 | 0.00 | .19E-07 | 180.000 | .30E-05 | 90.000 |
| 170. | 3160.882 | -.426 | .19E-05 | 0.00 | .18E-07 | 180.000 | .30E-05 | 90.000 |
| 171. | 3160.491 | -.387 | .19E-05 | 0.00 | .16E-07 | 180.000 | .30E-05 | 90.000 |
| 172. | 3160.138 | -.346 | .19E-05 | 0.00 | .14E-07 | 180.000 | .30E-05 | 90.000 |
| 173. | 3159.825 | -.305 | .19E-05 | 0.00 | .12E-07 | 180.000 | .30E-05 | 90.000 |
| 174. | 3159.552 | -.263 | .19E-05 | 0.00 | .10E-07 | 180.000 | .30E-05 | 90.000 |
| 175. | 3159.320 | -.220 | .19E-05 | 0.00 | .87E-08 | 180.000 | .30E-05 | 90.000 |
| 176. | 3159.129 | -.176 | .19E-05 | 0.00 | .69E-08 | 180.000 | .30E-05 | 90.000 |
| 177. | 3158.980 | -.133 | .19E-05 | 0.00 | .52E-08 | 180.000 | .30E-05 | 90.000 |
| 178. | 3158.874 | -.089 | .19E-05 | 0.00 | .35E-08 | 180.000 | .30E-05 | 90.000 |
| 179. | 3158.810 | -.044 | .19E-05 | 0.00 | .17E-08 | 180.000 | .30E-05 | 90.000 |
| 180. | 3158.788 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |

Z-CUT GADOLINIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3272.853 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 1. | 3272.862 | .017 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |
| 2. | 3272.887 | .034 | .19E-05 | 0.00 | .23E-08 | 180.000 | .28E-05 | 90.000 |
| 3. | 3272.929 | .051 | .19E-05 | 0.00 | .35E-08 | 180.000 | .28E-05 | 90.000 |
| 4. | 3272.988 | .067 | .19E-05 | 0.00 | .46E-08 | 180.000 | .28E-05 | 90.000 |
| 5. | 3273.062 | .083 | .19E-05 | 0.00 | .57E-08 | 180.000 | .28E-05 | 90.000 |
| 6. | 3273.153 | .099 | .19E-05 | 0.00 | .67E-08 | 180.000 | .28E-05 | 90.000 |
| 7. | 3273.260 | .115 | .19E-05 | 0.00 | .77E-08 | 180.000 | .28E-05 | 90.000 |
| 8. | 3273.382 | .130 | .19E-05 | 0.00 | .87E-08 | 180.000 | .28E-05 | 90.000 |
| 9. | 3273.519 | .144 | .19E-05 | 0.00 | .95E-08 | 180.000 | .28E-05 | 90.000 |
| 10. | 3273.669 | .158 | .19E-05 | 0.00 | .10E-07 | 180.000 | .28E-05 | 90.000 |
| 11. | 3273.834 | .171 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 12. | 3274.011 | .184 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 13. | 3274.200 | .196 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 14. | 3274.400 | .206 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 15. | 3274.611 | .216 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 16. | 3274.832 | .225 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 17. | 3275.061 | .234 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 18. | 3275.298 | .241 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 19. | 3275.541 | .247 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 20. | 3275.789 | .251 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 21. | 3276.042 | .255 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 22. | 3276.298 | .258 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 23. | 3276.555 | .259 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 24. | 3276.814 | .259 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 25. | 3277.072 | .258 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 26. | 3277.329 | .255 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 27. | 3277.582 | .252 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 28. | 3277.831 | .247 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 29. | 3278.074 | .240 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 30. | 3278.310 | .233 | .19E-05 | 0.00 | .10E-07 | 180.000 | .28E-05 | 90.000 |
| 31. | 3278.538 | .224 | .19E-05 | 0.00 | .95E-08 | 180.000 | .28E-05 | 90.000 |
| 32. | 3278.757 | .214 | .19E-05 | 0.00 | .88E-08 | 180.000 | .28E-05 | 90.000 |
| 33. | 3278.965 | .203 | .19E-05 | 0.00 | .81E-08 | 180.000 | .28E-05 | 90.000 |
| 34. | 3279.161 | .190 | .19E-05 | 0.00 | .74E-08 | 180.000 | .28E-05 | 90.000 |
| 35. | 3279.344 | .177 | .19E-05 | 0.00 | .67E-08 | 180.000 | .28E-05 | 90.000 |
| 36. | 3279.514 | .162 | .19E-05 | 0.00 | .60E-08 | 180.000 | .28E-05 | 90.000 |
| 37. | 3279.668 | .147 | .19E-05 | 0.00 | .53E-08 | 180.000 | .28E-05 | 90.000 |
| 38. | 3279.807 | .131 | .19E-05 | 0.00 | .46E-08 | 180.000 | .28E-05 | 90.000 |
| 39. | 3279.929 | .113 | .19E-05 | 0.00 | .39E-08 | 180.000 | .28E-05 | 90.000 |
| 40. | 3280.034 | .096 | .19E-05 | 0.00 | .32E-08 | 180.000 | .28E-05 | 90.000 |
| 41. | 3280.120 | .077 | .19E-05 | 0.00 | .26E-08 | 180.000 | .28E-05 | 90.000 |
| 42. | 3280.188 | .058 | .19E-05 | 0.00 | .19E-08 | 180.000 | .28E-05 | 90.000 |
| 43. | 3280.236 | .039 | .19E-05 | 0.00 | .13E-08 | 180.000 | .28E-05 | 90.000 |
| 44. | 3280.266 | .020 | .19E-05 | 0.00 | .63E-09 | 180.000 | .28E-05 | 90.000 |
| 45. | 3280.275 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 46. | 3280.266 | -.020 | .19E-05 | 0.00 | .63E-09 | 0.000 | .28E-05 | 90.000 |
| 47. | 3280.236 | -.039 | .19E-05 | 0.00 | .13E-08 | 0.000 | .28E-05 | 90.000 |
| 48. | 3280.188 | -.058 | .19E-05 | 0.00 | .19E-08 | 0.000 | .28E-05 | 90.000 |
| 49. | 3280.120 | -.077 | .19E-05 | 0.00 | .26E-08 | 0.000 | .28E-05 | 90.000 |

Z-CUT GADOLINIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3280.034 | -.096 | .19E-05 | 0.00 | .32E-08 | 0.000 | .28E-05 | 90.000 |
| 51. | 3279.929 | -.113 | .19E-05 | 0.00 | .39E-08 | 0.000 | .28E-05 | 90.000 |
| 52. | 3279.807 | -.131 | .19E-05 | 0.00 | .46E-08 | 0.000 | .28E-05 | 90.000 |
| 53. | 3279.668 | -.147 | .19E-05 | 0.00 | .53E-08 | 0.000 | .28E-05 | 90.000 |
| 54. | 3279.514 | -.162 | .19E-05 | 0.00 | .60E-08 | 0.000 | .28E-05 | 90.000 |
| 55. | 3279.344 | -.177 | .19E-05 | 0.00 | .67E-08 | 0.000 | .28E-05 | 90.000 |
| 56. | 3279.161 | -.190 | .19E-05 | 0.00 | .74E-08 | 0.000 | .28E-05 | 90.000 |
| 57. | 3278.965 | -.203 | .19E-05 | 0.00 | .81E-08 | 0.000 | .28E-05 | 90.000 |
| 58. | 3278.757 | -.214 | .19E-05 | 0.00 | .88E-08 | 0.000 | .28E-05 | 90.000 |
| 59. | 3278.538 | -.224 | .19E-05 | 0.00 | .95E-08 | 0.000 | .28E-05 | 90.000 |
| 60. | 3278.310 | -.233 | .19E-05 | 0.00 | .10E-07 | 0.000 | .28E-05 | 90.000 |
| 61. | 3278.074 | -.240 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 62. | 3277.831 | -.247 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 63. | 3277.582 | -.252 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 64. | 3277.329 | -.255 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 65. | 3277.072 | -.258 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 66. | 3276.814 | -.259 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 67. | 3276.556 | -.259 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 68. | 3276.298 | -.258 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 69. | 3276.042 | -.255 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 70. | 3275.789 | -.251 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 71. | 3275.541 | -.247 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 72. | 3275.298 | -.241 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 73. | 3275.061 | -.234 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 74. | 3274.832 | -.225 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 75. | 3274.611 | -.216 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 76. | 3274.400 | -.206 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 77. | 3274.200 | -.196 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 78. | 3274.011 | -.184 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 79. | 3273.834 | -.171 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 80. | 3273.659 | -.159 | .19E-05 | 0.00 | .10E-07 | 0.000 | .28E-05 | 90.000 |
| 81. | 3273.519 | -.144 | .19E-05 | 0.00 | .95E-08 | 0.000 | .28E-05 | 90.000 |
| 82. | 3273.392 | -.130 | .19E-05 | 0.00 | .87E-08 | 0.000 | .28E-05 | 90.000 |
| 83. | 3273.260 | -.115 | .19E-05 | 0.00 | .77E-08 | 0.000 | .28E-05 | 90.000 |
| 84. | 3273.153 | -.099 | .19E-05 | 0.00 | .67E-08 | 0.000 | .28E-05 | 90.000 |
| 85. | 3273.062 | -.083 | .19E-05 | 0.00 | .57E-08 | 0.000 | .28E-05 | 90.000 |
| 86. | 3272.988 | -.067 | .19E-05 | 0.00 | .46E-08 | 0.000 | .28E-05 | 90.000 |
| 87. | 3272.929 | -.051 | .19E-05 | 0.00 | .35E-08 | 0.000 | .28E-05 | 90.000 |
| 88. | 3272.887 | -.034 | .19E-05 | 0.00 | .23E-08 | 0.000 | .28E-05 | 90.000 |
| 89. | 3272.862 | -.017 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 90. | 3272.853 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 91. | 3272.862 | .017 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |
| 92. | 3272.887 | .034 | .19E-05 | 0.00 | .23E-08 | 180.000 | .28E-05 | 90.000 |
| 93. | 3272.929 | .051 | .19E-05 | 0.00 | .35E-08 | 180.000 | .28E-05 | 90.000 |
| 94. | 3272.988 | .067 | .19E-05 | 0.00 | .46E-08 | 180.000 | .28E-05 | 90.000 |
| 95. | 3273.062 | .083 | .19E-05 | 0.00 | .57E-08 | 180.000 | .28E-05 | 90.000 |
| 96. | 3273.153 | .099 | .19E-05 | 0.00 | .67E-08 | 180.000 | .28E-05 | 90.000 |
| 97. | 3273.260 | .115 | .19E-05 | 0.00 | .77E-08 | 180.000 | .28E-05 | 90.000 |
| 98. | 3273.392 | .130 | .19E-05 | 0.00 | .87E-08 | 180.000 | .28E-05 | 90.000 |
| 99. | 3273.519 | .144 | .19E-05 | 0.00 | .95E-08 | 180.000 | .28E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3273.669 | .158 | .19E-05 | 0.00 | .10E-07 | 180.000 | .28E-05 | 90.000 |
| 101. | 3273.834 | .171 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 102. | 3274.011 | .184 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 103. | 3274.200 | .196 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 104. | 3274.400 | .206 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 105. | 3274.611 | .216 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 106. | 3274.832 | .225 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 107. | 3275.061 | .234 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 108. | 3275.298 | .241 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 109. | 3275.541 | .247 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 110. | 3275.789 | .251 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 111. | 3276.042 | .255 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 112. | 3276.298 | .258 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 113. | 3276.556 | .259 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 114. | 3276.814 | .259 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 115. | 3277.072 | .258 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 116. | 3277.329 | .255 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 117. | 3277.582 | .252 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 118. | 3277.831 | .247 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 119. | 3278.074 | .240 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 120. | 3278.310 | .233 | .19E-05 | 0.00 | .10E-07 | 180.000 | .28E-05 | 90.000 |
| 121. | 3278.538 | .224 | .19E-05 | 0.00 | .95E-08 | 180.000 | .28E-05 | 90.000 |
| 122. | 3278.757 | .214 | .19E-05 | 0.00 | .88E-08 | 180.000 | .28E-05 | 90.000 |
| 123. | 3278.965 | .203 | .19E-05 | 0.00 | .81E-08 | 180.000 | .28E-05 | 90.000 |
| 124. | 3279.161 | .190 | .19E-05 | 0.00 | .74E-08 | 180.000 | .28E-05 | 90.000 |
| 125. | 3279.344 | .177 | .19E-05 | 0.00 | .67E-08 | 180.000 | .28E-05 | 90.000 |
| 126. | 3279.514 | .162 | .19E-05 | 0.00 | .60E-08 | 180.000 | .28E-05 | 90.000 |
| 127. | 3279.668 | .147 | .19E-05 | 0.00 | .53E-08 | 180.000 | .28E-05 | 90.000 |
| 128. | 3279.807 | .131 | .19E-05 | 0.00 | .46E-08 | 180.000 | .28E-05 | 90.000 |
| 129. | 3279.929 | .113 | .19E-05 | 0.00 | .39E-08 | 180.000 | .28E-05 | 90.000 |
| 130. | 3280.034 | .096 | .19E-05 | 0.00 | .32E-08 | 180.000 | .28E-05 | 90.000 |
| 131. | 3280.120 | .077 | .19E-05 | 0.00 | .26E-08 | 180.000 | .28E-05 | 90.000 |
| 132. | 3280.188 | .058 | .19E-05 | 0.00 | .19E-08 | 180.000 | .28E-05 | 90.000 |
| 133. | 3280.236 | .039 | .19E-05 | 0.00 | .13E-08 | 180.000 | .28E-05 | 90.000 |
| 134. | 3280.266 | .020 | .19E-05 | 0.00 | .63E-09 | 180.000 | .28E-05 | 90.000 |
| 135. | 3280.276 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 136. | 3280.266 | -.020 | .19E-05 | 0.00 | .63E-09 | 0.000 | .28E-05 | 90.000 |
| 137. | 3280.236 | -.039 | .19E-05 | 0.00 | .13E-08 | 0.000 | .28E-05 | 90.000 |
| 138. | 3280.188 | -.058 | .19E-05 | 0.00 | .19E-08 | 0.000 | .28E-05 | 90.000 |
| 139. | 3280.120 | -.077 | .19E-05 | 0.00 | .26E-08 | 0.000 | .28E-05 | 90.000 |
| 140. | 3280.034 | -.096 | .19E-05 | 0.00 | .32E-08 | 0.000 | .28E-05 | 90.000 |
| 141. | 3279.929 | -.113 | .19E-05 | 0.00 | .39E-08 | 0.000 | .28E-05 | 90.000 |
| 142. | 3279.807 | -.131 | .19E-05 | 0.00 | .46E-08 | 0.000 | .28E-05 | 90.000 |
| 143. | 3279.668 | -.147 | .19E-05 | 0.00 | .53E-08 | 0.000 | .28E-05 | 90.000 |
| 144. | 3279.514 | -.162 | .19E-05 | 0.00 | .60E-08 | 0.000 | .28E-05 | 90.000 |
| 145. | 3279.344 | -.177 | .19E-05 | 0.00 | .67E-08 | 0.000 | .28E-05 | 90.000 |
| 146. | 3279.161 | -.190 | .19E-05 | 0.00 | .74E-08 | 0.000 | .28E-05 | 90.000 |
| 147. | 3278.965 | -.203 | .19E-05 | 0.00 | .81E-08 | 0.000 | .28E-05 | 90.000 |
| 148. | 3278.757 | -.214 | .19E-05 | 0.00 | .88E-08 | 0.000 | .28E-05 | 90.000 |
| 149. | 3278.538 | -.224 | .19E-05 | 0.00 | .95E-08 | 0.000 | .28E-05 | 90.000 |

Z-CUT GADOLINIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3278.310 | -.233 | .19E-05 | 0.00 | .10E-07 | 0.000 | .28E-05 | 90.000 |
| 151. | 3278.074 | -.240 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 152. | 3277.831 | -.247 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 153. | 3277.582 | -.252 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 154. | 3277.329 | -.255 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 155. | 3277.072 | -.258 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 156. | 3276.814 | -.259 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 157. | 3276.556 | -.259 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 158. | 3276.298 | -.258 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 159. | 3276.042 | -.255 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 160. | 3275.789 | -.251 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 161. | 3275.541 | -.247 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 162. | 3275.298 | -.241 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 163. | 3275.061 | -.234 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 164. | 3274.832 | -.225 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 165. | 3274.611 | -.216 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 166. | 3274.400 | -.206 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 167. | 3274.200 | -.196 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 168. | 3274.011 | -.184 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 169. | 3273.834 | -.171 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 170. | 3273.669 | -.158 | .19E-05 | 0.00 | .10E-07 | 0.000 | .28E-05 | 90.000 |
| 171. | 3273.519 | -.144 | .19E-05 | 0.00 | .95E-08 | 0.000 | .28E-05 | 90.000 |
| 172. | 3273.382 | -.130 | .19E-05 | 0.00 | .87E-08 | 0.000 | .28E-05 | 90.000 |
| 173. | 3273.260 | -.115 | .19E-05 | 0.00 | .77E-08 | 0.000 | .28E-05 | 90.000 |
| 174. | 3273.153 | -.099 | .19E-05 | 0.00 | .67E-08 | 0.000 | .28E-05 | 90.000 |
| 175. | 3273.062 | -.083 | .19E-05 | 0.00 | .57E-08 | 0.000 | .28E-05 | 90.000 |
| 176. | 3272.988 | -.067 | .19E-05 | 0.00 | .46E-08 | 0.000 | .28E-05 | 90.000 |
| 177. | 3272.929 | -.051 | .19E-05 | 0.00 | .35E-08 | 0.000 | .28E-05 | 90.000 |
| 178. | 3272.887 | -.034 | .19E-05 | 0.00 | .23E-08 | 0.000 | .28E-05 | 90.000 |
| 179. | 3272.862 | -.017 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 180. | 3272.853 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3230.028 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 1. | 3230.050 | .044 | .18E-05 | 0.00 | .14E-08 | 0.000 | .28E-05 | 90.000 |
| 2. | 3230.114 | .087 | .18E-05 | 0.00 | .29E-08 | 0.000 | .28E-05 | 90.000 |
| 3. | 3230.221 | .130 | .18E-05 | 0.00 | .43E-08 | 0.000 | .28E-05 | 90.000 |
| 4. | 3230.370 | .173 | .18E-05 | 0.00 | .57E-08 | 0.000 | .28E-05 | 90.000 |
| 5. | 3230.562 | .216 | .18E-05 | 0.00 | .72E-08 | 0.000 | .28E-05 | 90.000 |
| 6. | 3230.795 | .258 | .18E-05 | 0.00 | .86E-08 | 0.000 | .28E-05 | 90.000 |
| 7. | 3231.069 | .299 | .18E-05 | 0.00 | .10E-07 | 0.000 | .28E-05 | 90.000 |
| 8. | 3231.384 | .340 | .18E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 9. | 3231.738 | .380 | .18E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 10. | 3232.131 | .418 | .18E-05 | 0.00 | .15E-07 | 0.000 | .28E-05 | 90.000 |
| 11. | 3232.561 | .456 | .18E-05 | 0.00 | .16E-07 | 0.000 | .28E-05 | 90.000 |
| 12. | 3233.029 | .493 | .18E-05 | 0.00 | .18E-07 | 0.000 | .28E-05 | 90.000 |
| 13. | 3233.532 | .528 | .18E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 14. | 3234.070 | .563 | .18E-05 | 0.00 | .21E-07 | 0.000 | .28E-05 | 90.000 |
| 15. | 3234.640 | .596 | .18E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 16. | 3235.243 | .627 | .18E-05 | 0.00 | .24E-07 | 0.000 | .28E-05 | 90.000 |
| 17. | 3235.876 | .657 | .18E-05 | 0.00 | .26E-07 | 0.000 | .28E-05 | 90.000 |
| 18. | 3236.538 | .685 | .18E-05 | 0.00 | .27E-07 | 0.000 | .28E-05 | 90.000 |
| 19. | 3237.227 | .712 | .18E-05 | 0.00 | .29E-07 | 0.000 | .28E-05 | 90.000 |
| 20. | 3237.942 | .737 | .18E-05 | 0.00 | .31E-07 | 0.000 | .28E-05 | 90.000 |
| 21. | 3238.681 | .761 | .18E-05 | 0.00 | .32E-07 | 0.000 | .28E-05 | 90.000 |
| 22. | 3239.442 | .782 | .18E-05 | 0.00 | .34E-07 | 0.000 | .28E-05 | 90.000 |
| 23. | 3240.225 | .802 | .18E-05 | 0.00 | .36E-07 | 0.000 | .28E-05 | 90.000 |
| 24. | 3241.026 | .820 | .18E-05 | 0.00 | .37E-07 | 0.000 | .28E-05 | 90.000 |
| 25. | 3241.844 | .837 | .18E-05 | 0.00 | .39E-07 | 0.000 | .28E-05 | 90.000 |
| 26. | 3242.677 | .851 | .18E-05 | 0.00 | .41E-07 | 0.000 | .28E-05 | 90.000 |
| 27. | 3243.525 | .864 | .18E-05 | 0.00 | .42E-07 | 0.000 | .28E-05 | 90.000 |
| 28. | 3244.384 | .874 | .18E-05 | 0.00 | .44E-07 | 0.000 | .28E-05 | 90.000 |
| 29. | 3245.252 | .883 | .18E-05 | 0.00 | .45E-07 | 0.000 | .28E-05 | 90.000 |
| 30. | 3246.129 | .890 | .18E-05 | 0.00 | .47E-07 | 0.000 | .28E-05 | 90.000 |
| 31. | 3247.013 | .896 | .18E-05 | 0.00 | .48E-07 | 0.000 | .28E-05 | 90.000 |
| 32. | 3247.901 | .900 | .18E-05 | 0.00 | .50E-07 | 0.000 | .28E-05 | 90.000 |
| 33. | 3248.793 | .902 | .18E-05 | 0.00 | .51E-07 | 0.000 | .28E-05 | 90.000 |
| 34. | 3249.685 | .902 | .18E-05 | 0.00 | .53E-07 | 0.000 | .28E-05 | 90.000 |
| 35. | 3250.578 | .901 | .18E-05 | 0.00 | .54E-07 | 0.000 | .28E-05 | 90.000 |
| 36. | 3251.469 | .898 | .18E-05 | 0.00 | .55E-07 | 0.000 | .28E-05 | 90.000 |
| 37. | 3252.357 | .894 | .18E-05 | 0.00 | .57E-07 | 0.000 | .28E-05 | 90.000 |
| 38. | 3253.240 | .888 | .18E-05 | 0.00 | .58E-07 | 0.000 | .28E-05 | 90.000 |
| 39. | 3254.117 | .882 | .18E-05 | 0.00 | .59E-07 | 0.000 | .28E-05 | 90.000 |
| 40. | 3254.988 | .874 | .18E-05 | 0.00 | .60E-07 | 0.000 | .28E-05 | 90.000 |
| 41. | 3255.850 | .865 | .18E-05 | 0.00 | .61E-07 | 0.000 | .28E-05 | 90.000 |
| 42. | 3256.702 | .854 | .18E-05 | 0.00 | .62E-07 | 0.000 | .28E-05 | 90.000 |
| 43. | 3257.545 | .843 | .18E-05 | 0.00 | .62E-07 | 0.000 | .28E-05 | 90.000 |
| 44. | 3258.376 | .831 | .18E-05 | 0.00 | .63E-07 | 0.000 | .28E-05 | 90.000 |
| 45. | 3259.194 | .818 | .18E-05 | 0.00 | .64E-07 | 0.000 | .28E-05 | 90.000 |
| 46. | 3260.000 | .805 | .18E-05 | 0.00 | .64E-07 | 0.000 | .28E-05 | 90.000 |
| 47. | 3260.793 | .791 | .18E-05 | 0.00 | .65E-07 | 0.000 | .28E-05 | 90.000 |
| 48. | 3261.571 | .776 | .18E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |
| 49. | 3262.335 | .761 | .18E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |

110°-CUT GADOLINIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3263.083 | .745 | .18E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |
| 51. | 3263.815 | .729 | .18E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 52. | 3264.532 | .712 | .18E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 53. | 3265.232 | .695 | .19E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 54. | 3265.915 | .678 | .19E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 55. | 3266.582 | .661 | .19E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 56. | 3267.231 | .644 | .19E-05 | 0.00 | .67E-07 | 0.000 | .28E-05 | 90.000 |
| 57. | 3267.863 | .626 | .19E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |
| 58. | 3268.477 | .608 | .19E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |
| 59. | 3269.074 | .590 | .19E-05 | 0.00 | .66E-07 | 0.000 | .28E-05 | 90.000 |
| 60. | 3269.653 | .572 | .19E-05 | 0.00 | .65E-07 | 0.000 | .28E-05 | 90.000 |
| 61. | 3270.214 | .554 | .19E-05 | 0.00 | .65E-07 | 0.000 | .28E-05 | 90.000 |
| 62. | 3270.757 | .536 | .19E-05 | 0.00 | .64E-07 | 0.000 | .28E-05 | 90.000 |
| 63. | 3271.282 | .518 | .19E-05 | 0.00 | .63E-07 | 0.000 | .28E-05 | 90.000 |
| 64. | 3271.789 | .499 | .19E-05 | 0.00 | .62E-07 | 0.000 | .28E-05 | 90.000 |
| 65. | 3272.277 | .481 | .19E-05 | 0.00 | .61E-07 | 0.000 | .28E-05 | 90.000 |
| 66. | 3272.747 | .462 | .19E-05 | 0.00 | .60E-07 | 0.000 | .28E-05 | 90.000 |
| 67. | 3273.198 | .443 | .19E-05 | 0.00 | .59E-07 | 0.000 | .28E-05 | 90.000 |
| 68. | 3273.631 | .425 | .19E-05 | 0.00 | .57E-07 | 0.000 | .28E-05 | 90.000 |
| 69. | 3274.045 | .406 | .19E-05 | 0.00 | .56E-07 | 0.000 | .28E-05 | 90.000 |
| 70. | 3274.441 | .387 | .19E-05 | 0.00 | .54E-07 | 0.000 | .28E-05 | 90.000 |
| 71. | 3274.818 | .368 | .19E-05 | 0.00 | .52E-07 | 0.000 | .28E-05 | 90.000 |
| 72. | 3275.175 | .349 | .19E-05 | 0.00 | .50E-07 | 0.000 | .28E-05 | 90.000 |
| 73. | 3275.514 | .330 | .19E-05 | 0.00 | .48E-07 | 0.000 | .28E-05 | 90.000 |
| 74. | 3275.834 | .311 | .19E-05 | 0.00 | .46E-07 | 0.000 | .28E-05 | 90.000 |
| 75. | 3276.135 | .292 | .19E-05 | 0.00 | .44E-07 | 0.000 | .28E-05 | 90.000 |
| 76. | 3276.417 | .273 | .19E-05 | 0.00 | .41E-07 | 0.000 | .28E-05 | 90.000 |
| 77. | 3276.680 | .253 | .19E-05 | 0.00 | .39E-07 | 0.000 | .28E-05 | 90.000 |
| 78. | 3276.923 | .234 | .19E-05 | 0.00 | .36E-07 | 0.000 | .28E-05 | 90.000 |
| 79. | 3277.147 | .215 | .19E-05 | 0.00 | .34E-07 | 0.000 | .28E-05 | 90.000 |
| 80. | 3277.352 | .195 | .19E-05 | 0.00 | .31E-07 | 0.000 | .28E-05 | 90.000 |
| 81. | 3277.537 | .176 | .19E-05 | 0.00 | .28E-07 | 0.000 | .28E-05 | 90.000 |
| 82. | 3277.703 | .157 | .19E-05 | 0.00 | .25E-07 | 0.000 | .28E-05 | 90.000 |
| 83. | 3277.850 | .137 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 84. | 3277.977 | .118 | .19E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 85. | 3278.085 | .098 | .19E-05 | 0.00 | .16E-07 | 0.000 | .28E-05 | 90.000 |
| 86. | 3278.173 | .078 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 87. | 3278.241 | .059 | .19E-05 | 0.00 | .97E-08 | 0.000 | .28E-05 | 90.000 |
| 88. | 3278.290 | .039 | .19E-05 | 0.00 | .65E-08 | 0.000 | .28E-05 | 90.000 |
| 89. | 3278.320 | .020 | .19E-05 | 0.00 | .33E-08 | 0.000 | .28E-05 | 90.000 |
| 90. | 3278.329 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 91. | 3278.320 | -.020 | .19E-05 | 0.00 | .33E-08 | 180.000 | .28E-05 | 90.000 |
| 92. | 3278.290 | -.039 | .19E-05 | 0.00 | .65E-08 | 180.000 | .28E-05 | 90.000 |
| 93. | 3278.241 | -.059 | .19E-05 | 0.00 | .97E-08 | 180.000 | .28E-05 | 90.000 |
| 94. | 3278.173 | -.078 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 95. | 3278.085 | -.098 | .19E-05 | 0.00 | .16E-07 | 180.000 | .28E-05 | 90.000 |
| 96. | 3277.977 | -.118 | .19E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 97. | 3277.850 | -.137 | .19E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 98. | 3277.703 | -.157 | .19E-05 | 0.00 | .25E-07 | -180.000 | .28E-05 | 90.000 |
| 99. | 3277.537 | -.176 | .19E-05 | 0.00 | .28E-07 | 180.000 | .28E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3277.352 | -.195 | .19E-05 | 0.00 | .31E-07 | -180.000 | .28E-05 | 90.000 |
| 101. | 3277.147 | -.215 | .19E-05 | 0.00 | .34E-07 | 180.000 | .28E-05 | 90.000 |
| 102. | 3276.923 | -.234 | .19E-05 | 0.00 | .36E-07 | 180.000 | .28E-05 | 90.000 |
| 103. | 3276.680 | -.253 | .19E-05 | 0.00 | .39E-07 | 180.000 | .28E-05 | 90.000 |
| 104. | 3276.417 | -.273 | .19E-05 | 0.00 | .41E-07 | 180.000 | .28E-05 | 90.000 |
| 105. | 3276.135 | -.292 | .19E-05 | 0.00 | .44E-07 | 180.000 | .28E-05 | 90.000 |
| 106. | 3275.834 | -.311 | .19E-05 | 0.00 | .46E-07 | 180.000 | .28E-05 | 90.000 |
| 107. | 3275.514 | -.330 | .19E-05 | 0.00 | .48E-07 | -180.000 | .28E-05 | 90.000 |
| 108. | 3275.175 | -.349 | .19E-05 | 0.00 | .50E-07 | 180.000 | .28E-05 | 90.000 |
| 109. | 3274.818 | -.368 | .19E-05 | 0.00 | .52E-07 | 180.000 | .28E-05 | 90.000 |
| 110. | 3274.441 | -.387 | .19E-05 | 0.00 | .54E-07 | 180.000 | .28E-05 | 90.000 |
| 111. | 3274.045 | -.406 | .19E-05 | 0.00 | .56E-07 | 180.000 | .28E-05 | 90.000 |
| 112. | 3273.631 | -.425 | .19E-05 | 0.00 | .57E-07 | -180.000 | .28E-05 | 90.000 |
| 113. | 3273.198 | -.443 | .19E-05 | 0.00 | .59E-07 | 180.000 | .28E-05 | 90.000 |
| 114. | 3272.747 | -.462 | .19E-05 | 0.00 | .60E-07 | -180.000 | .28E-05 | 90.000 |
| 115. | 3272.277 | -.481 | .19E-05 | 0.00 | .61E-07 | 180.000 | .28E-05 | 90.000 |
| 116. | 3271.789 | -.499 | .19E-05 | 0.00 | .62E-07 | 180.000 | .28E-05 | 90.000 |
| 117. | 3271.282 | -.518 | .19E-05 | 0.00 | .63E-07 | 180.000 | .28E-05 | 90.000 |
| 118. | 3270.757 | -.536 | .19E-05 | 0.00 | .64E-07 | 180.000 | .28E-05 | 90.000 |
| 119. | 3270.214 | -.554 | .19E-05 | 0.00 | .65E-07 | 180.000 | .28E-05 | 90.000 |
| 120. | 3269.653 | -.572 | .19E-05 | 0.00 | .65E-07 | 180.000 | .28E-05 | 90.000 |
| 121. | 3269.074 | -.590 | .19E-05 | 0.00 | .66E-07 | 180.000 | .28E-05 | 90.000 |
| 122. | 3268.477 | -.608 | .19E-05 | 0.00 | .66E-07 | 180.000 | .28E-05 | 90.000 |
| 123. | 3267.863 | -.626 | .19E-05 | 0.00 | .66E-07 | -180.000 | .28E-05 | 90.000 |
| 124. | 3267.231 | -.644 | .19E-05 | 0.00 | .67E-07 | 180.000 | .28E-05 | 90.000 |
| 125. | 3266.582 | -.661 | .19E-05 | 0.00 | .67E-07 | 180.000 | .28E-05 | 90.000 |
| 126. | 3265.915 | -.678 | .19E-05 | 0.00 | .67E-07 | -180.000 | .28E-05 | 90.000 |
| 127. | 3265.232 | -.695 | .19E-05 | 0.00 | .67E-07 | 180.000 | .28E-05 | 90.000 |
| 128. | 3264.532 | -.712 | .18E-05 | 0.00 | .67E-07 | 180.000 | .28E-05 | 90.000 |
| 129. | 3263.815 | -.729 | .18E-05 | 0.00 | .67E-07 | -180.000 | .28E-05 | 90.000 |
| 130. | 3263.083 | -.745 | .18E-05 | 0.00 | .66E-07 | 180.000 | .28E-05 | 90.000 |
| 131. | 3262.335 | -.761 | .18E-05 | 0.00 | .66E-07 | 180.000 | .28E-05 | 90.000 |
| 132. | 3261.571 | -.776 | .18E-05 | 0.00 | .66E-07 | 180.000 | .28E-05 | 90.000 |
| 133. | 3260.793 | -.791 | .18E-05 | 0.00 | .65E-07 | 180.000 | .28E-05 | 90.000 |
| 134. | 3260.000 | -.805 | .18E-05 | 0.00 | .64E-07 | 180.000 | .28E-05 | 90.000 |
| 135. | 3259.194 | -.819 | .18E-05 | 0.00 | .64E-07 | 180.000 | .28E-05 | 90.000 |
| 136. | 3258.376 | -.831 | .18E-05 | 0.00 | .63E-07 | 180.000 | .28E-05 | 90.000 |
| 137. | 3257.545 | -.843 | .18E-05 | 0.00 | .62E-07 | 180.000 | .28E-05 | 90.000 |
| 138. | 3256.702 | -.854 | .18E-05 | 0.00 | .62E-07 | 180.000 | .28E-05 | 90.000 |
| 139. | 3255.850 | -.865 | .18E-05 | 0.00 | .61E-07 | -180.000 | .28E-05 | 90.000 |
| 140. | 3254.988 | -.874 | .18E-05 | 0.00 | .60E-07 | 180.000 | .28E-05 | 90.000 |
| 141. | 3254.117 | -.882 | .18E-05 | 0.00 | .59E-07 | 180.000 | .28E-05 | 90.000 |
| 142. | 3253.240 | -.888 | .18E-05 | 0.00 | .58E-07 | -180.000 | .28E-05 | 90.000 |
| 143. | 3252.357 | -.894 | .18E-05 | 0.00 | .57E-07 | 180.000 | .28E-05 | 90.000 |
| 144. | 3251.469 | -.898 | .18E-05 | 0.00 | .55E-07 | 180.000 | .28E-05 | 90.000 |
| 145. | 3250.578 | -.901 | .18E-05 | 0.00 | .54E-07 | 180.000 | .28E-05 | 90.000 |
| 146. | 3249.685 | -.902 | .18E-05 | 0.00 | .53E-07 | 180.000 | .28E-05 | 90.000 |
| 147. | 3248.793 | -.902 | .18E-05 | 0.00 | .51E-07 | -180.000 | .28E-05 | 90.000 |
| 148. | 3247.901 | -.900 | .18E-05 | 0.00 | .50E-07 | 180.000 | .28E-05 | 90.000 |
| 149. | 3247.013 | -.896 | .18E-05 | 0.00 | .48E-07 | 180.000 | .28E-05 | 90.000 |

110-CUT GADOLINIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3246.129 | -.890 | .18E-05 | 0.00 | .47E-07 | 180.000 | .28E-05 | 90.000 |
| 151. | 3245.252 | -.883 | .18E-05 | 0.00 | .45E-07 | -180.000 | .28E-05 | 90.000 |
| 152. | 3244.384 | -.874 | .18E-05 | 0.00 | .44E-07 | 180.000 | .28E-05 | 90.000 |
| 153. | 3243.525 | -.864 | .18E-05 | 0.00 | .42E-07 | 180.000 | .28E-05 | 90.000 |
| 154. | 3242.677 | -.851 | .18E-05 | 0.00 | .41E-07 | 180.000 | .28E-05 | 90.000 |
| 155. | 3241.844 | -.837 | .18E-05 | 0.00 | .39E-07 | 180.000 | .28E-05 | 90.000 |
| 156. | 3241.026 | -.820 | .18E-05 | 0.00 | .37E-07 | 180.000 | .28E-05 | 90.000 |
| 157. | 3240.225 | -.802 | .18E-05 | 0.00 | .36E-07 | 180.000 | .28E-05 | 90.000 |
| 158. | 3239.442 | -.782 | .18E-05 | 0.00 | .34E-07 | 180.000 | .28E-05 | 90.000 |
| 159. | 3238.681 | -.761 | .18E-05 | 0.00 | .32E-07 | 180.000 | .28E-05 | 90.000 |
| 160. | 3237.942 | -.737 | .18E-05 | 0.00 | .31E-07 | 180.000 | .28E-05 | 90.000 |
| 161. | 3237.227 | -.712 | .18E-05 | 0.00 | .29E-07 | 180.000 | .28E-05 | 90.000 |
| 162. | 3236.538 | -.685 | .18E-05 | 0.00 | .27E-07 | 180.000 | .28E-05 | 90.000 |
| 163. | 3235.876 | -.657 | .18E-05 | 0.00 | .26E-07 | 180.000 | .28E-05 | 90.000 |
| 164. | 3235.243 | -.627 | .18E-05 | 0.00 | .24E-07 | 180.000 | .28E-05 | 90.000 |
| 165. | 3234.640 | -.596 | .18E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 166. | 3234.070 | -.563 | .18E-05 | 0.00 | .21E-07 | 180.000 | .28E-05 | 90.000 |
| 167. | 3233.532 | -.528 | .18E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 168. | 3233.029 | -.493 | .18E-05 | 0.00 | .18E-07 | 180.000 | .28E-05 | 90.000 |
| 169. | 3232.561 | -.456 | .18E-05 | 0.00 | .16E-07 | 180.000 | .28E-05 | 90.000 |
| 170. | 3232.131 | -.418 | .18E-05 | 0.00 | .15E-07 | 180.000 | .28E-05 | 90.000 |
| 171. | 3231.738 | -.380 | .18E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 172. | 3231.384 | -.340 | .18E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 173. | 3231.069 | -.299 | .18E-05 | 0.00 | .10E-07 | 180.000 | .28E-05 | 90.000 |
| 174. | 3230.795 | -.256 | .18E-05 | 0.00 | .86E-08 | 180.000 | .28E-05 | 90.000 |
| 175. | 3230.562 | -.216 | .18E-05 | 0.00 | .72E-08 | 180.000 | .28E-05 | 90.000 |
| 176. | 3230.370 | -.173 | .18E-05 | 0.00 | .57E-08 | 180.000 | .28E-05 | 90.000 |
| 177. | 3230.221 | -.130 | .18E-05 | 0.00 | .43E-08 | 180.000 | .28E-05 | 90.000 |
| 178. | 3230.114 | -.087 | .18E-05 | 0.00 | .29E-08 | 180.000 | .28E-05 | 90.000 |
| 179. | 3230.050 | -.044 | .18E-05 | 0.00 | .14E-08 | 180.000 | .28E-05 | 90.000 |
| 180. | 3230.028 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |

111-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 2430.760 | 0.000 | .15E-05 | 0.00 | .14E-05 | -90.000 | .30E-05 | 90.000 | .177E+03 | -90.000 | 2430.758 | 0.000 | 0.00000 |
| 1. | 2431.129 | .996 | .16E-05 | 0.00 | .14E-05 | -88.447 | .30E-05 | 90.732 | .190E+03 | -108.470 | 2431.127 | .995 | 0.00000 |
| 2. | 2432.234 | 1.984 | .16E-05 | 0.00 | .14E-05 | -86.899 | .30E-05 | 91.460 | .224E+03 | -122.339 | 2432.231 | 1.983 | 0.00000 |
| 3. | 2434.068 | 2.960 | .16E-05 | 0.00 | .14E-05 | -85.357 | .30E-05 | 92.181 | .272E+03 | -131.133 | 2434.064 | 2.957 | 0.00000 |
| 4. | 2436.623 | 3.915 | .16E-05 | 0.00 | .14E-05 | -83.825 | .30E-05 | 92.891 | .329E+03 | -136.292 | 2436.616 | 3.912 | 0.00000 |
| 5. | 2439.884 | 4.843 | .16E-05 | 0.00 | .14E-05 | -82.308 | .30E-05 | 93.588 | .390E+03 | -139.127 | 2439.874 | 4.839 | 0.00000 |
| 6. | 2443.833 | 5.739 | .16E-05 | 0.00 | .14E-05 | -80.809 | .30E-05 | 94.268 | .454E+03 | -140.489 | 2443.820 | 5.734 | .00001 |
| 7. | 2448.449 | 6.595 | .16E-05 | 0.00 | .14E-05 | -79.329 | .30E-05 | 94.928 | .521E+03 | -140.893 | 2448.431 | 6.589 | .00001 |
| 8. | 2453.704 | 7.405 | .16E-05 | 0.00 | .14E-05 | -77.874 | .31E-05 | 95.566 | .590E+03 | -140.659 | 2453.682 | 7.398 | .00001 |
| 9. | 2459.570 | 8.165 | .16E-05 | 0.00 | .14E-05 | -76.446 | .31E-05 | 96.178 | .661E+03 | -139.990 | 2459.541 | 8.157 | .00001 |
| 10. | 2466.010 | 8.867 | .17E-05 | 0.00 | .14E-05 | -75.047 | .31E-05 | 96.763 | .734E+03 | -139.020 | 2465.975 | 8.858 | .00001 |
| 11. | 2472.985 | 9.506 | .17E-05 | 0.00 | .13E-05 | -73.681 | .31E-05 | 97.318 | .808E+03 | -137.840 | 2472.942 | 9.496 | .00002 |
| 12. | 2480.450 | 10.077 | .17E-05 | 0.00 | .13E-05 | -72.350 | .31E-05 | 97.842 | .884E+03 | -136.518 | 2480.398 | 10.066 | .00002 |
| 13. | 2488.354 | 10.573 | .17E-05 | 0.00 | .13E-05 | -71.057 | .31E-05 | 98.333 | .961E+03 | -135.101 | 2488.293 | 10.560 | .00002 |
| 14. | 2496.642 | 10.987 | .18E-05 | 0.00 | .13E-05 | -69.805 | .32E-05 | 98.789 | .104E+04 | -133.625 | 2496.571 | 10.973 | .00003 |
| 15. | 2505.252 | 11.312 | .18E-05 | 0.00 | .12E-05 | -68.597 | .32E-05 | 99.211 | .112E+04 | -132.119 | 2505.168 | 11.297 | .00003 |
| 16. | 2514.112 | 11.543 | .18E-05 | 0.00 | .12E-05 | -67.435 | .32E-05 | 99.597 | .120E+04 | -130.607 | 2514.016 | 11.526 | .00004 |
| 17. | 2523.147 | 11.668 | .18E-05 | 0.00 | .12E-05 | -66.322 | .33E-05 | 99.947 | .128E+04 | -129.107 | 2523.037 | 11.651 | .00004 |
| 18. | 2532.271 | 11.681 | .19E-05 | 0.00 | .11E-05 | -65.262 | .33E-05 | 100.261 | .136E+04 | -127.636 | 2532.145 | 11.662 | .00005 |
| 19. | 2541.388 | 11.570 | .19E-05 | 0.00 | .11E-05 | -64.258 | .33E-05 | 100.540 | .145E+04 | -126.210 | 2541.247 | 11.550 | .00006 |
| 20. | 2550.395 | 11.324 | .20E-05 | 0.00 | .10E-05 | -63.314 | .34E-05 | 100.785 | .153E+04 | -124.842 | 2550.236 | 11.303 | .00006 |
| 21. | 2559.175 | 10.931 | .20E-05 | 0.00 | .94E-06 | -62.434 | .34E-05 | 100.996 | .161E+04 | -123.545 | 2558.999 | 10.909 | .00007 |
| 22. | 2567.604 | 10.379 | .20E-05 | 0.00 | .87E-06 | -61.623 | .34E-05 | 101.175 | .169E+04 | -122.332 | 2567.409 | 10.357 | .00008 |
| 23. | 2575.545 | 9.658 | .21E-05 | 0.00 | .79E-06 | -60.887 | .35E-05 | 101.325 | .176E+04 | -121.217 | 2575.332 | 9.636 | .00008 |
| 24. | 2582.854 | 8.757 | .21E-05 | 0.00 | .70E-06 | -60.230 | .35E-05 | 101.447 | .183E+04 | -120.213 | 2582.623 | 8.736 | .00009 |
| 25. | 2589.383 | 7.673 | .21E-05 | 0.00 | .60E-06 | -59.650 | .35E-05 | 101.544 | .190E+04 | -119.334 | 2589.135 | 7.654 | .00010 |
| 26. | 2594.983 | 6.410 | .21E-05 | 0.00 | .49E-06 | -59.183 | .36E-05 | 101.618 | .195E+04 | -118.592 | 2594.720 | 6.392 | .00010 |
| 27. | 2599.513 | 4.979 | .22E-05 | 0.00 | .38E-06 | -58.803 | .36E-05 | 101.673 | .200E+04 | -117.999 | 2599.237 | 4.965 | .00011 |
| 28. | 2602.850 | 3.407 | .22E-05 | 0.00 | .26E-06 | -58.526 | .36E-05 | 101.710 | .203E+04 | -117.567 | 2602.564 | 3.397 | .00011 |
| 29. | 2604.834 | 1.731 | .22E-05 | 0.00 | .13E-06 | -58.351 | .36E-05 | 101.731 | .205E+04 | -117.305 | 2604.602 | 1.726 | .00011 |
| 30. | 2605.583 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 101.738 | .206E+04 | -117.216 | 2605.289 | 0.000 | .00011 |
| 31. | 2604.834 | -1.731 | .22E-05 | 0.00 | .13E-06 | 121.639 | .36E-05 | 101.731 | .205E+04 | -117.305 | 2604.602 | -1.726 | .00011 |
| 32. | 2602.850 | -3.407 | .22E-05 | 0.00 | .26E-06 | 121.472 | .36E-05 | 101.710 | .203E+04 | -117.567 | 2602.564 | -3.397 | .00011 |
| 33. | 2599.513 | -4.979 | .22E-05 | 0.00 | .38E-06 | 121.197 | .36E-05 | 101.673 | .200E+04 | -117.999 | 2599.237 | -4.965 | .00011 |
| 34. | 2594.983 | -6.410 | .21E-05 | 0.00 | .49E-06 | 120.817 | .36E-05 | 101.618 | .195E+04 | -118.592 | 2594.720 | -6.392 | .00010 |
| 35. | 2589.383 | -7.673 | .21E-05 | 0.00 | .60E-06 | 120.340 | .35E-05 | 101.544 | .190E+04 | -119.334 | 2589.135 | -7.654 | .00010 |
| 36. | 2582.854 | -8.757 | .21E-05 | 0.00 | .70E-06 | 119.770 | .35E-05 | 101.447 | .183E+04 | -120.213 | 2582.623 | -8.736 | .00009 |
| 37. | 2575.545 | -9.658 | .21E-05 | 0.00 | .79E-06 | 119.113 | .35E-05 | 101.325 | .176E+04 | -121.217 | 2575.332 | -9.636 | .00008 |
| 38. | 2567.604 | -10.379 | .20E-05 | 0.00 | .87E-06 | 118.377 | .34E-05 | 101.175 | .169E+04 | -122.332 | 2567.409 | -10.357 | .00008 |
| 39. | 2559.175 | -10.931 | .20E-05 | 0.00 | .94E-06 | 117.566 | .34E-05 | 100.996 | .161E+04 | -123.545 | 2558.999 | -10.909 | .00007 |
| 40. | 2550.395 | -11.324 | .20E-05 | 0.00 | .10E-05 | 116.686 | .34E-05 | 100.785 | .153E+04 | -124.842 | 2550.236 | -11.303 | .00006 |
| 41. | 2541.388 | -11.570 | .19E-05 | 0.00 | .11E-05 | 115.742 | .33E-05 | 100.540 | .145E+04 | -126.210 | 2541.247 | -11.550 | .00006 |
| 42. | 2532.271 | -11.681 | .19E-05 | 0.00 | .11E-05 | 114.738 | .33E-05 | 100.261 | .136E+04 | -127.636 | 2532.145 | -11.662 | .00005 |
| 43. | 2523.147 | -11.668 | .18E-05 | 0.00 | .12E-05 | 113.678 | .33E-05 | 99.947 | .128E+04 | -129.107 | 2523.037 | -11.651 | .00004 |
| 44. | 2514.112 | -11.543 | .18E-05 | 0.00 | .12E-05 | 112.565 | .32E-05 | 99.597 | .120E+04 | -130.607 | 2514.016 | -11.526 | .00004 |
| 45. | 2505.252 | -11.312 | .18E-05 | 0.00 | .12E-05 | 111.403 | .32E-05 | 99.211 | .112E+04 | -132.119 | 2505.168 | -11.297 | .00003 |
| 46. | 2496.642 | -10.987 | .18E-05 | 0.00 | .13E-05 | 110.195 | .32E-05 | 98.789 | .104E+04 | -133.625 | 2496.571 | -10.973 | .00003 |
| 47. | 2488.354 | -10.573 | .17E-05 | 0.00 | .13E-05 | 108.943 | .31E-05 | 98.333 | .961E+03 | -135.101 | 2488.293 | -10.560 | .00002 |
| 48. | 2480.450 | -10.077 | .17E-05 | 0.00 | .13E-05 | 107.650 | .31E-05 | 97.842 | .884E+03 | -136.519 | 2480.398 | -10.066 | .00002 |
| 49. | 2472.985 | -9.506 | .17E-05 | 0.00 | .13E-05 | 106.319 | .31E-05 | 97.318 | .808E+03 | -137.842 | 2472.942 | -9.496 | .00002 |

111-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2466.010 | -8.867 | .17E-05 | 0.00 | .14E-05 | 104.353 | .31E-05 | 96.763 | .734E+03 | -139.021 | 2465.975 | -8.858 | .00001 |
| 51. | 2459.570 | -8.165 | .16E-05 | 0.00 | .14E-05 | 103.554 | .31E-05 | 96.178 | .661E+03 | -139.992 | 2459.541 | -8.157 | .00001 |
| 52. | 2453.704 | -7.405 | .16E-05 | 0.00 | .14E-05 | 102.126 | .31E-05 | 95.566 | .590E+03 | -140.062 | 2453.682 | -7.398 | .00001 |
| 53. | 2448.449 | -6.595 | .16E-05 | 0.00 | .14E-05 | 100.671 | .30E-05 | 94.928 | .521E+03 | -140.897 | 2448.431 | -6.589 | .00001 |
| 54. | 2443.833 | -5.739 | .16E-05 | 0.00 | .14E-05 | 99.191 | .30E-05 | 94.266 | .454E+03 | -140.494 | 2443.820 | -5.734 | .00001 |
| 55. | 2439.884 | -4.843 | .16E-05 | 0.00 | .14E-05 | 97.682 | .30E-05 | 93.580 | .390E+03 | -139.135 | 2439.874 | -4.839 | 0.00000 |
| 56. | 2436.623 | -3.915 | .16E-05 | 0.00 | .14E-05 | 96.175 | .30E-05 | 92.891 | .329E+03 | -136.304 | 2436.616 | -3.912 | 0.00000 |
| 57. | 2434.068 | -2.960 | .16E-05 | 0.00 | .14E-05 | 94.643 | .30E-05 | 92.181 | .272E+03 | -131.151 | 2434.064 | -2.957 | 0.00000 |
| 58. | 2432.234 | -1.984 | .16E-05 | 0.00 | .14E-05 | 93.101 | .30E-05 | 91.460 | .224E+03 | -122.366 | 2432.231 | -1.983 | 0.00000 |
| 59. | 2431.129 | -.996 | .16E-05 | 0.00 | .14E-05 | 91.553 | .30E-05 | 90.732 | .190E+03 | -108.507 | 2431.127 | -.995 | 0.00000 |
| 60. | 2430.760 | 0.000 | .15E-05 | 0.00 | .14E-05 | 90.000 | .30E-05 | 90.000 | .177E+03 | -90.000 | 2430.758 | 0.000 | 0.00000 |
| 61. | 2431.129 | .996 | .16E-05 | 0.00 | .14E-05 | 88.447 | .30E-05 | 89.268 | .190E+03 | -71.507 | 2431.127 | .995 | 0.00000 |
| 62. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 2432.231 | 1.983 | .99999 |
| 63. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 2434.084 | 2.957 | .99999 |
| 64. | 2436.623 | 3.915 | .16E-05 | 0.00 | .14E-05 | 83.825 | .30E-05 | 87.109 | .329E+03 | -43.719 | 2436.616 | 3.912 | 0.00000 |
| 65. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 2439.874 | 4.839 | .99999 |
| 66. | 2443.833 | 5.739 | .16E-05 | 0.00 | .14E-05 | 80.809 | .30E-05 | 85.732 | .454E+03 | -39.517 | 2443.819 | 5.734 | .00001 |
| 67. | 2448.449 | 6.595 | .16E-05 | 0.00 | .14E-05 | 79.329 | .30E-05 | 85.072 | .521E+03 | -39.111 | 2448.431 | 6.589 | .00001 |
| 68. | 2453.704 | 7.405 | .16E-05 | 0.00 | .14E-05 | 77.874 | .31E-05 | 84.434 | .590E+03 | -39.343 | 2453.682 | 7.398 | .00001 |
| 69. | 2459.570 | 8.165 | .16E-05 | 0.00 | .14E-05 | 76.446 | .31E-05 | 83.822 | .661E+03 | -40.012 | 2459.541 | 8.157 | .00001 |
| 70. | 2466.010 | 8.867 | .17E-05 | 0.00 | .14E-05 | 75.047 | .31E-05 | 83.237 | .734E+03 | -40.982 | 2465.975 | 8.858 | .00001 |
| 71. | 2472.985 | 9.506 | .17E-05 | 0.00 | .13E-05 | 73.681 | .31E-05 | 82.682 | .808E+03 | -42.160 | 2472.942 | 9.496 | .00002 |
| 72. | 2480.490 | 10.077 | .17E-05 | 0.00 | .13E-05 | 72.350 | .31E-05 | 82.159 | .884E+03 | -43.483 | 2480.398 | 10.066 | .00002 |
| 73. | 2488.354 | 10.573 | .17E-05 | 0.00 | .13E-05 | 71.057 | .31E-05 | 81.667 | .961E+03 | -44.900 | 2488.293 | 10.560 | .00002 |
| 74. | 2496.042 | 10.987 | .18E-05 | 0.00 | .13E-05 | 69.805 | .32E-05 | 81.211 | .104E+04 | -46.375 | 2496.570 | 10.973 | .00003 |
| 75. | 2505.251 | 11.312 | .18E-05 | 0.00 | .12E-05 | 68.597 | .32E-05 | 80.789 | .112E+04 | -47.881 | 2505.168 | 11.297 | .00003 |
| 76. | 2514.112 | 11.543 | .18E-05 | 0.00 | .12E-05 | 67.435 | .32E-05 | 80.403 | .120E+04 | -49.393 | 2514.015 | 11.526 | .00004 |
| 77. | 2523.147 | 11.686 | .18E-05 | 0.00 | .12E-05 | 66.322 | .33E-05 | 80.053 | .128E+04 | -50.893 | 2523.036 | 11.651 | .00004 |
| 78. | 2532.271 | 11.681 | .19E-05 | 0.00 | .11E-05 | 65.262 | .33E-05 | 79.739 | .136E+04 | -52.363 | 2532.145 | 11.662 | .00005 |
| 79. | 2541.388 | 11.570 | .19E-05 | 0.00 | .11E-05 | 64.258 | .33E-05 | 79.460 | .145E+04 | -53.790 | 2541.247 | 11.550 | .00006 |
| 80. | 2550.395 | 11.324 | .20E-05 | 0.00 | .10E-05 | 63.314 | .34E-05 | 79.215 | .153E+04 | -55.158 | 2550.236 | 11.303 | .00006 |
| 81. | 2559.173 | 10.931 | .20E-05 | 0.00 | .94E-06 | 62.434 | .34E-05 | 79.004 | .161E+04 | -56.452 | 2558.999 | 10.909 | .00007 |
| 82. | 2567.604 | 10.379 | .20E-05 | 0.00 | .87E-06 | 61.623 | .34E-05 | 78.825 | .169E+04 | -57.667 | 2567.409 | 10.357 | .00008 |
| 83. | 2575.545 | 9.658 | .21E-05 | 0.00 | .79E-06 | 60.887 | .35E-05 | 78.675 | .176E+04 | -58.782 | 2575.332 | 9.636 | .00008 |
| 84. | 2582.854 | 8.757 | .21E-05 | 0.00 | .70E-06 | 60.230 | .35E-05 | 78.553 | .183E+04 | -59.780 | 2582.623 | 8.736 | .00009 |
| 85. | 2589.383 | 7.673 | .21E-05 | 0.00 | .60E-06 | 59.650 | .35E-05 | 78.456 | .190E+04 | -60.660 | 2589.135 | 7.654 | .00010 |
| 86. | 2594.983 | 6.410 | .21E-05 | 0.00 | .49E-06 | 59.153 | .36E-05 | 78.382 | .195E+04 | -61.408 | 2594.720 | 6.392 | .00010 |
| 87. | 2599.513 | 4.979 | .22E-05 | 0.00 | .38E-06 | 58.803 | .36E-05 | 78.327 | .200E+04 | -62.000 | 2599.237 | 4.965 | .00011 |
| 88. | 2602.850 | 3.407 | .22E-05 | 0.00 | .26E-06 | 58.528 | .36E-05 | 78.290 | .203E+04 | -62.432 | 2602.564 | 3.397 | .00011 |
| 89. | 2604.834 | 1.731 | .22E-05 | 0.00 | .13E-06 | 58.351 | .36E-05 | 78.269 | .205E+04 | -62.695 | 2604.602 | 1.726 | .00011 |
| 90. | 2605.583 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 78.262 | .206E+04 | -62.783 | 2605.289 | 0.000 | .00011 |
| 91. | 2604.834 | -1.731 | .22E-05 | 0.00 | .13E-06 | -121.639 | .36E-05 | 78.269 | .205E+04 | -62.695 | 2604.602 | -1.726 | .00011 |
| 92. | 2602.850 | -3.407 | .22E-05 | 0.00 | .26E-06 | -121.472 | .36E-05 | 78.290 | .203E+04 | -62.432 | 2602.564 | -3.397 | .00011 |
| 93. | 2599.513 | -4.979 | .22E-05 | 0.00 | .38E-06 | -121.197 | .36E-05 | 78.327 | .200E+04 | -62.000 | 2599.237 | -4.965 | .00011 |
| 94. | 2594.983 | -6.410 | .21E-05 | 0.00 | .49E-06 | -120.817 | .36E-05 | 78.382 | .195E+04 | -61.408 | 2594.720 | -6.392 | .00010 |
| 95. | 2589.383 | -7.673 | .21E-05 | 0.00 | .60E-06 | -120.340 | .35E-05 | 78.456 | .190E+04 | -60.660 | 2589.135 | -7.654 | .00010 |
| 96. | 2582.854 | -8.757 | .21E-05 | 0.00 | .70E-06 | -119.770 | .35E-05 | 78.553 | .183E+04 | -59.786 | 2582.623 | -8.736 | .00009 |
| 97. | 2575.545 | -9.658 | .21E-05 | 0.00 | .79E-06 | -119.113 | .35E-05 | 78.675 | .176E+04 | -58.782 | 2575.332 | -9.636 | .00008 |
| 98. | 2567.604 | -10.379 | .20E-05 | 0.00 | .87E-06 | -118.377 | .34E-05 | 78.825 | .169E+04 | -57.667 | 2567.409 | -10.357 | .00008 |
| 99. | 2559.173 | -10.931 | .20E-05 | 0.00 | .94E-06 | -117.566 | .34E-05 | 79.004 | .161E+04 | -56.452 | 2558.999 | -10.909 | .00007 |

111-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 2550.335 | -11.324 | .20E-05 | 0.00 | .10E-05 | -116.066 | .34E-05 | 79.215 | .153E+04 | -55.158 | 2550.236 | -11.303 | .00006 |
| 101. | 2541.388 | -11.570 | .19E-05 | 0.00 | .11E-05 | -115.742 | .33E-05 | 79.460 | .145E+04 | -53.790 | 2541.247 | -11.550 | .00006 |
| 102. | 2532.271 | -11.681 | .19E-05 | 0.00 | .11E-05 | -114.738 | .33E-05 | 79.739 | .136E+04 | -52.363 | 2532.145 | -11.602 | .00005 |
| 103. | 2523.147 | -11.668 | .18E-05 | 0.00 | .12E-05 | -113.678 | .33E-05 | 80.053 | .128E+04 | -50.893 | 2523.036 | -11.651 | .00004 |
| 104. | 2514.112 | -11.543 | .18E-05 | 0.00 | .12E-05 | -112.565 | .32E-05 | 80.403 | .120E+04 | -49.393 | 2514.015 | -11.526 | .00004 |
| 105. | 2505.251 | -11.312 | .18E-05 | 0.00 | .12E-05 | -111.403 | .32E-05 | 80.789 | .112E+04 | -47.881 | 2505.168 | -11.297 | .00003 |
| 106. | 2496.642 | -10.987 | .18E-05 | 0.00 | .13E-05 | -110.195 | .32E-05 | 81.211 | .104E+04 | -46.375 | 2496.570 | -10.973 | .00003 |
| 107. | 2488.354 | -10.573 | .17E-05 | 0.00 | .13E-05 | -108.943 | .31E-05 | 81.667 | .961E+03 | -44.900 | 2488.293 | -10.560 | .00002 |
| 108. | 2480.450 | -10.077 | .17E-05 | 0.00 | .13E-05 | -107.650 | .31E-05 | 82.158 | .884E+03 | -43.483 | 2480.398 | -10.066 | .00002 |
| 109. | 2472.985 | -9.506 | .17E-05 | 0.00 | .13E-05 | -106.319 | .31E-05 | 82.682 | .808E+03 | -42.160 | 2472.942 | -9.496 | .00002 |
| 110. | 2466.010 | -8.867 | .17E-05 | 0.00 | .14E-05 | -104.953 | .31E-05 | 83.237 | .734E+03 | -40.982 | 2465.975 | -8.858 | .00001 |
| 111. | 2459.570 | -8.169 | .16E-05 | 0.00 | .14E-05 | -103.554 | .31E-05 | 83.822 | .661E+03 | -40.012 | 2459.541 | -8.157 | .00001 |
| 112. | 2453.704 | -7.405 | .16E-05 | 0.00 | .14E-05 | -102.126 | .31E-05 | 84.434 | .590E+03 | -39.343 | 2453.662 | -7.398 | .00001 |
| 113. | 2448.449 | -6.595 | .16E-05 | 0.00 | .14E-05 | -100.671 | .30E-05 | 85.072 | .521E+03 | -39.111 | 2448.431 | -6.589 | .00001 |
| 114. | 2443.833 | -5.739 | .16E-05 | 0.00 | .14E-05 | -99.191 | .30E-05 | 85.732 | .454E+03 | -39.517 | 2443.819 | -5.734 | .00001 |
| 115. | 2439.884 | -4.843 | .16E-05 | 0.00 | .14E-05 | -97.692 | .30E-05 | 86.412 | .390E+03 | -40.880 | 2439.874 | -4.839 | 0.00000 |
| 116. | 2436.623 | -3.915 | .16E-05 | 0.00 | .14E-05 | -96.175 | .30E-05 | 87.109 | .329E+03 | -43.719 | 2436.616 | -3.912 | 0.00000 |
| 117. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 2642.107 | 9.999 | .99999 |
| 118. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 2499.753 | 9.999 | .00001 |
| 119. | 2431.129 | -.996 | .16E-05 | 0.00 | .14E-05 | -91.953 | .30E-05 | 89.208 | .196E+03 | -71.967 | 2431.127 | -.995 | 0.00000 |
| 120. | 2430.760 | 0.000 | .15E-05 | 0.00 | .14E-05 | -90.000 | .30E-05 | 90.000 | .177E+03 | -90.000 | 2430.758 | 0.000 | 0.00000 |
| 121. | 2431.129 | .996 | .16E-05 | 0.00 | .14E-05 | -88.047 | .30E-05 | 90.732 | .190E+03 | -108.507 | 2431.127 | .995 | 0.00000 |
| 122. | 2432.234 | 1.984 | .16E-05 | 0.00 | .14E-05 | -86.099 | .30E-05 | 91.460 | .224E+03 | -122.366 | 2432.231 | 1.983 | 0.00000 |
| 123. | 2434.068 | 2.960 | .16E-05 | 0.00 | .14E-05 | -85.157 | .30E-05 | 92.181 | .272E+03 | -131.151 | 2434.064 | 2.957 | 0.00000 |
| 124. | 2436.623 | 3.915 | .16E-05 | 0.00 | .14E-05 | -83.825 | .30E-05 | 92.891 | .329E+03 | -136.304 | 2436.616 | 3.912 | 0.00000 |
| 125. | 2439.884 | 4.843 | .16E-05 | 0.00 | .14E-05 | -82.308 | .30E-05 | 93.580 | .390E+03 | -139.135 | 2439.874 | 4.839 | 0.00000 |
| 126. | 2443.833 | 5.739 | .16E-05 | 0.00 | .14E-05 | -80.609 | .30E-05 | 94.260 | .454E+03 | -140.494 | 2443.820 | 5.734 | .00001 |
| 127. | 2448.449 | 6.595 | .16E-05 | 0.00 | .14E-05 | -79.329 | .30E-05 | 94.928 | .521E+03 | -140.897 | 2448.431 | 6.589 | .00001 |
| 128. | 2453.704 | 7.405 | .16E-05 | 0.00 | .14E-05 | -77.874 | .31E-05 | 95.586 | .590E+03 | -140.662 | 2453.662 | 7.398 | .00001 |
| 129. | 2459.570 | 8.169 | .16E-05 | 0.00 | .14E-05 | -76.446 | .31E-05 | 96.170 | .661E+03 | -139.992 | 2459.541 | 8.157 | .00001 |
| 130. | 2466.010 | 8.867 | .17E-05 | 0.00 | .14E-05 | -75.047 | .31E-05 | 96.703 | .734E+03 | -139.021 | 2465.975 | 8.858 | .00001 |
| 131. | 2472.985 | 9.506 | .17E-05 | 0.00 | .13E-05 | -73.681 | .31E-05 | 97.310 | .808E+03 | -137.842 | 2472.942 | 9.496 | .00002 |
| 132. | 2480.450 | 10.077 | .17E-05 | 0.00 | .13E-05 | -72.350 | .31E-05 | 97.842 | .884E+03 | -136.519 | 2480.398 | 10.066 | .00002 |
| 133. | 2488.354 | 10.573 | .17E-05 | 0.00 | .13E-05 | -71.057 | .31E-05 | 98.333 | .961E+03 | -135.101 | 2488.293 | 10.560 | .00002 |
| 134. | 2496.642 | 10.987 | .18E-05 | 0.00 | .13E-05 | -69.805 | .32E-05 | 98.789 | .104E+04 | -133.629 | 2496.571 | 10.973 | .00003 |
| 135. | 2505.252 | 11.312 | .18E-05 | 0.00 | .12E-05 | -68.597 | .32E-05 | 99.211 | .112E+04 | -132.119 | 2505.168 | 11.297 | .00003 |
| 136. | 2514.112 | 11.543 | .18E-05 | 0.00 | .12E-05 | -67.435 | .32E-05 | 99.597 | .120E+04 | -130.607 | 2514.016 | 11.526 | .00004 |
| 137. | 2523.147 | 11.668 | .18E-05 | 0.00 | .12E-05 | -66.322 | .33E-05 | 99.947 | .128E+04 | -129.107 | 2523.037 | 11.651 | .00004 |
| 138. | 2532.271 | 11.681 | .19E-05 | 0.00 | .11E-05 | -65.252 | .33E-05 | 100.261 | .136E+04 | -127.636 | 2532.145 | 11.662 | .00005 |
| 139. | 2541.388 | 11.570 | .19E-05 | 0.00 | .11E-05 | -64.228 | .33E-05 | 100.540 | .145E+04 | -126.210 | 2541.247 | 11.550 | .00006 |
| 140. | 2550.335 | 11.324 | .20E-05 | 0.00 | .10E-05 | -63.314 | .34E-05 | 100.785 | .153E+04 | -124.842 | 2550.236 | 11.303 | .00006 |
| 141. | 2559.175 | 10.931 | .20E-05 | 0.00 | .94E-06 | -62.434 | .34E-05 | 100.996 | .161E+04 | -123.545 | 2559.099 | 10.909 | .00007 |
| 142. | 2567.604 | 10.379 | .20E-05 | 0.00 | .87E-06 | -61.623 | .34E-05 | 101.175 | .169E+04 | -122.332 | 2567.409 | 10.357 | .00008 |
| 143. | 2575.545 | 9.659 | .21E-05 | 0.00 | .79E-06 | -60.887 | .35E-05 | 101.325 | .176E+04 | -121.217 | 2575.332 | 9.636 | .00008 |
| 144. | 2582.824 | 8.757 | .21E-05 | 0.00 | .70E-06 | -60.230 | .35E-05 | 101.447 | .183E+04 | -120.213 | 2582.623 | 8.736 | .00009 |
| 145. | 2589.383 | 7.673 | .21E-05 | 0.00 | .60E-06 | -59.656 | .35E-05 | 101.544 | .190E+04 | -119.334 | 2589.135 | 7.654 | .00010 |
| 146. | 2594.983 | 6.410 | .21E-05 | 0.00 | .49E-06 | -59.163 | .36E-05 | 101.618 | .195E+04 | -118.592 | 2594.720 | 6.392 | .00010 |
| 147. | 2599.513 | 4.979 | .22E-05 | 0.00 | .36E-06 | -58.803 | .36E-05 | 101.673 | .200E+04 | -117.999 | 2599.237 | 4.965 | .00011 |
| 148. | 2602.850 | 3.407 | .22E-05 | 0.00 | .26E-06 | -58.528 | .36E-05 | 101.710 | .203E+04 | -117.567 | 2602.564 | 3.397 | .00011 |
| 149. | 2604.834 | 1.731 | .22E-05 | 0.00 | .13E-06 | -58.351 | .36E-05 | 101.731 | .205E+04 | -117.305 | 2604.602 | 1.726 | .00011 |

111-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2605.583 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .36E-05 | 101.738 | .206E+04 | -117.216 | 2605.289 | 0.000 | .00011 |
| 151. | 2604.894 | -1.731 | .22E-05 | 0.00 | .13E-06 | 121.039 | .36E-05 | 101.731 | .205E+04 | -117.305 | 2604.602 | -1.726 | .00011 |
| 152. | 2602.830 | -3.407 | .22E-05 | 0.00 | .26E-06 | 121.472 | .36E-05 | 101.710 | .203E+04 | -117.567 | 2602.564 | -3.397 | .00011 |
| 153. | 2599.513 | -4.979 | .22E-05 | 0.00 | .38E-06 | 121.197 | .36E-05 | 101.673 | .200E+04 | -117.999 | 2599.237 | -4.965 | .00011 |
| 154. | 2594.983 | -6.410 | .21E-05 | 0.00 | .49E-06 | 120.317 | .36E-05 | 101.618 | .195E+04 | -118.592 | 2594.720 | -6.392 | .00010 |
| 155. | 2589.383 | -7.673 | .21E-05 | 0.00 | .60E-06 | 120.340 | .35E-05 | 101.544 | .190E+04 | -119.334 | 2589.135 | -7.654 | .00010 |
| 156. | 2582.854 | -8.757 | .21E-05 | 0.00 | .70E-06 | 119.770 | .35E-05 | 101.447 | .183E+04 | -120.213 | 2582.623 | -8.736 | .00009 |
| 157. | 2575.545 | -9.658 | .21E-05 | 0.00 | .79E-06 | 119.113 | .35E-05 | 101.325 | .176E+04 | -121.217 | 2575.332 | -9.636 | .00008 |
| 158. | 2567.604 | -10.379 | .20E-05 | 0.00 | .87E-06 | 118.377 | .34E-05 | 101.175 | .169E+04 | -122.332 | 2567.409 | -10.357 | .00008 |
| 159. | 2559.175 | -10.931 | .20E-05 | 0.00 | .94E-06 | 117.560 | .34E-05 | 100.996 | .161E+04 | -123.545 | 2558.999 | -10.909 | .00007 |
| 160. | 2550.395 | -11.324 | .20E-05 | 0.00 | .10E-05 | 116.686 | .34E-05 | 100.785 | .153E+04 | -124.842 | 2550.236 | -11.303 | .00006 |
| 161. | 2541.388 | -11.570 | .19E-05 | 0.00 | .11E-05 | 115.742 | .33E-05 | 100.540 | .145E+04 | -126.210 | 2541.247 | -11.550 | .00006 |
| 162. | 2532.271 | -11.681 | .19E-05 | 0.00 | .11E-05 | 114.738 | .33E-05 | 100.261 | .136E+04 | -127.636 | 2532.145 | -11.662 | .00005 |
| 163. | 2523.147 | -11.668 | .18E-05 | 0.00 | .12E-05 | 113.678 | .33E-05 | 99.947 | .126E+04 | -129.107 | 2523.037 | -11.651 | .00004 |
| 164. | 2514.112 | -11.543 | .18E-05 | 0.00 | .12E-05 | 112.565 | .32E-05 | 99.597 | .120E+04 | -130.607 | 2514.016 | -11.526 | .00004 |
| 165. | 2505.252 | -11.312 | .18E-05 | 0.00 | .12E-05 | 111.403 | .32E-05 | 99.211 | .112E+04 | -132.119 | 2505.168 | -11.297 | .00003 |
| 166. | 2496.642 | -10.987 | .18E-05 | 0.00 | .13E-05 | 110.195 | .32E-05 | 98.789 | .104E+04 | -133.625 | 2496.571 | -10.973 | .00003 |
| 167. | 2488.354 | -10.573 | .17E-05 | 0.00 | .13E-05 | 108.943 | .31E-05 | 98.333 | .961E+03 | -135.101 | 2488.293 | -10.560 | .00002 |
| 168. | 2480.450 | -10.077 | .17E-05 | 0.00 | .13E-05 | 107.650 | .31E-05 | 97.842 | .884E+03 | -136.518 | 2480.398 | -10.066 | .00002 |
| 169. | 2472.985 | -9.506 | .17E-05 | 0.00 | .13E-05 | 106.319 | .31E-05 | 97.318 | .806E+03 | -137.840 | 2472.942 | -9.496 | .00002 |
| 170. | 2466.010 | -8.867 | .17E-05 | 0.00 | .14E-05 | 104.953 | .31E-05 | 96.763 | .734E+03 | -139.020 | 2465.975 | -8.858 | .00001 |
| 171. | 2459.570 | -8.169 | .16E-05 | 0.00 | .14E-05 | 103.554 | .31E-05 | 96.178 | .661E+03 | -139.990 | 2459.541 | -8.157 | .00001 |
| 172. | 2453.704 | -7.419 | .16E-05 | 0.00 | .14E-05 | 102.126 | .31E-05 | 95.566 | .590E+03 | -140.659 | 2453.682 | -7.398 | .00001 |
| 173. | 2448.449 | -6.599 | .16E-05 | 0.00 | .14E-05 | 100.671 | .30E-05 | 94.926 | .521E+03 | -140.893 | 2448.431 | -6.589 | .00001 |
| 174. | 2443.833 | -5.739 | .16E-05 | 0.00 | .14E-05 | 99.191 | .30E-05 | 94.260 | .454E+03 | -140.489 | 2443.820 | -5.734 | .00001 |
| 175. | 2439.884 | -4.843 | .16E-05 | 0.00 | .14E-05 | 97.692 | .30E-05 | 93.568 | .390E+03 | -139.127 | 2439.874 | -4.839 | 0.00000 |
| 176. | 2436.623 | -3.915 | .16E-05 | 0.00 | .14E-05 | 96.175 | .30E-05 | 92.891 | .329E+03 | -136.292 | 2436.616 | -3.912 | 0.00000 |
| 177. | 2434.068 | -2.960 | .16E-05 | 0.00 | .14E-05 | 94.643 | .30E-05 | 92.181 | .272E+03 | -131.133 | 2434.064 | -2.957 | 0.00000 |
| 178. | 2432.234 | -1.984 | .16E-05 | 0.00 | .14E-05 | 93.101 | .30E-05 | 91.460 | .224E+03 | -122.339 | 2432.231 | -1.983 | 0.00000 |
| 179. | 2431.129 | -.996 | .16E-05 | 0.00 | .14E-05 | 91.553 | .30E-05 | 90.732 | .190E+03 | -108.470 | 2431.127 | -.995 | 0.00000 |
| 180. | 2430.750 | 0.000 | .15E-05 | 0.00 | .14E-05 | 90.000 | .30E-05 | 90.000 | .177E+03 | -90.000 | 2430.758 | 0.000 | 0.00000 |

211-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 2620.979 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .37E-05 | 87.217 | .246E+04 | -175.907 | 2620.556 | 0.000 | .00016 |
| 1. | 2619.938 | -2.578 | .21E-05 | 0.00 | .25E-06 | 133.957 | .37E-05 | 87.195 | .246E+04 | -175.978 | 2619.517 | -2.570 | .00016 |
| 2. | 2616.954 | -4.816 | .21E-05 | 0.00 | .48E-06 | 132.832 | .37E-05 | 87.126 | .243E+04 | -176.765 | 2616.542 | -4.803 | .00016 |
| 3. | 2612.375 | -6.557 | .21E-05 | 0.00 | .66E-06 | 131.132 | .36E-05 | 87.006 | .239E+04 | -177.945 | 2611.976 | -6.541 | .00015 |
| 4. | 2606.602 | -7.819 | .20E-05 | 0.00 | .81E-06 | 129.028 | .36E-05 | 86.832 | .235E+04 | -179.389 | 2606.217 | -7.802 | .00015 |
| 5. | 2599.986 | -8.693 | .20E-05 | 0.00 | .92E-06 | 126.663 | .35E-05 | 86.604 | .231E+04 | 179.007 | 2599.616 | -8.676 | .00014 |
| 6. | 2592.806 | -9.273 | .20E-05 | 0.00 | .10E-05 | 124.142 | .35E-05 | 86.324 | .227E+04 | 177.313 | 2592.450 | -9.256 | .00014 |
| 7. | 2585.270 | -9.631 | .19E-05 | 0.00 | .11E-05 | 121.538 | .35E-05 | 85.997 | .223E+04 | 175.578 | 2584.928 | -9.614 | .00013 |
| 8. | 2577.538 | -9.820 | .19E-05 | 0.00 | .11E-05 | 118.900 | .34E-05 | 85.626 | .218E+04 | 173.831 | 2577.211 | -9.803 | .00013 |
| 9. | 2569.732 | -9.876 | .19E-05 | 0.00 | .11E-05 | 116.260 | .34E-05 | 85.219 | .214E+04 | 172.093 | 2569.420 | -9.859 | .00012 |
| 10. | 2561.950 | -9.823 | .19E-05 | 0.00 | .12E-05 | 113.640 | .34E-05 | 84.779 | .209E+04 | 170.375 | 2561.653 | -9.806 | .00012 |
| 11. | 2554.272 | -9.679 | .18E-05 | 0.00 | .12E-05 | 111.056 | .34E-05 | 84.313 | .204E+04 | 168.686 | 2553.990 | -9.662 | .00011 |
| 12. | 2546.763 | -9.458 | .18E-05 | 0.00 | .12E-05 | 108.518 | .34E-05 | 83.825 | .198E+04 | 167.034 | 2546.496 | -9.440 | .00010 |
| 13. | 2539.480 | -9.168 | .18E-05 | 0.00 | .12E-05 | 106.031 | .33E-05 | 83.320 | .193E+04 | 165.422 | 2539.229 | -9.149 | .00010 |
| 14. | 2532.472 | -8.817 | .18E-05 | 0.00 | .12E-05 | 103.602 | .33E-05 | 82.803 | .187E+04 | 163.856 | 2532.236 | -8.798 | .00009 |
| 15. | 2525.781 | -8.412 | .18E-05 | 0.00 | .12E-05 | 101.233 | .33E-05 | 82.278 | .181E+04 | 162.339 | 2525.561 | -8.393 | .00009 |
| 16. | 2519.446 | -7.958 | .18E-05 | 0.00 | .12E-05 | 98.925 | .33E-05 | 81.748 | .175E+04 | 160.875 | 2519.240 | -7.939 | .00008 |
| 17. | 2513.498 | -7.459 | .18E-05 | 0.00 | .12E-05 | 96.680 | .33E-05 | 81.217 | .169E+04 | 159.470 | 2513.308 | -7.440 | .00008 |
| 18. | 2507.968 | -6.920 | .18E-05 | 0.00 | .12E-05 | 94.498 | .33E-05 | 80.688 | .162E+04 | 158.129 | 2507.792 | -6.901 | .00007 |
| 19. | 2502.881 | -6.345 | .18E-05 | 0.00 | .12E-05 | 92.377 | .33E-05 | 80.164 | .155E+04 | 156.856 | 2502.720 | -6.327 | .00006 |
| 20. | 2498.260 | -5.738 | .18E-05 | 0.00 | .12E-05 | 90.318 | .33E-05 | 79.648 | .148E+04 | 155.660 | 2498.113 | -5.720 | .00006 |
| 21. | 2494.125 | -5.102 | .18E-05 | 0.00 | .12E-05 | 88.320 | .33E-05 | 79.142 | .141E+04 | 154.548 | 2493.992 | -5.084 | .00005 |
| 22. | 2490.492 | -4.442 | .18E-05 | 0.00 | .12E-05 | 86.380 | .33E-05 | 78.648 | .134E+04 | 153.531 | 2490.373 | -4.424 | .00005 |
| 23. | 2487.377 | -3.760 | .18E-05 | 0.00 | .12E-05 | 84.497 | .33E-05 | 78.168 | .127E+04 | 152.621 | 2487.270 | -3.744 | .00004 |
| 24. | 2484.789 | -3.062 | .18E-05 | 0.00 | .12E-05 | 82.670 | .33E-05 | 77.704 | .119E+04 | 151.836 | 2484.695 | -3.046 | .00004 |
| 25. | 2482.740 | -2.350 | .18E-05 | 0.00 | .12E-05 | 80.896 | .33E-05 | 77.256 | .111E+04 | 151.196 | 2482.657 | -2.335 | .00003 |
| 26. | 2481.234 | -1.630 | .19E-05 | 0.00 | .11E-05 | 79.173 | .33E-05 | 76.827 | .104E+04 | 150.731 | 2481.163 | -1.615 | .00003 |
| 27. | 2480.277 | -.903 | .19E-05 | 0.00 | .11E-05 | 77.499 | .33E-05 | 76.417 | .957E+03 | 150.478 | 2480.216 | -.890 | .00002 |
| 28. | 2479.869 | -.175 | .19E-05 | 0.00 | .11E-05 | 75.871 | .33E-05 | 76.027 | .877E+03 | 150.492 | 2479.819 | -.163 | .00002 |
| 29. | 2480.012 | .551 | .19E-05 | 0.00 | .11E-05 | 74.287 | .33E-05 | 75.658 | .795E+03 | 150.850 | 2479.970 | .562 | .00002 |
| 30. | 2480.701 | 1.271 | .19E-05 | 0.00 | .11E-05 | 72.742 | .33E-05 | 75.310 | .714E+03 | 151.663 | 2480.667 | 1.281 | .00001 |
| 31. | 2481.931 | 1.982 | .19E-05 | 0.00 | .11E-05 | 71.235 | .33E-05 | 74.984 | .632E+03 | 153.103 | 2481.905 | 1.991 | .00001 |
| 32. | 2483.695 | 2.679 | .20E-05 | 0.00 | .11E-05 | 69.761 | .33E-05 | 74.680 | .550E+03 | 155.438 | 2483.675 | 2.687 | .00001 |
| 33. | 2485.984 | 3.360 | .20E-05 | 0.00 | .10E-05 | 68.317 | .33E-05 | 74.398 | .471E+03 | 159.103 | 2485.969 | 3.366 | .00001 |
| 34. | 2488.785 | 4.020 | .20E-05 | 0.00 | .10E-05 | 66.898 | .34E-05 | 74.139 | .395E+03 | 164.824 | 2488.775 | 4.025 | 0.00000 |
| 35. | 2492.085 | 4.657 | .20E-05 | 0.00 | .10E-05 | 65.500 | .34E-05 | 73.902 | .328E+03 | 173.771 | 2492.077 | 4.661 | 0.00000 |
| 36. | 2495.866 | 5.268 | .20E-05 | 0.00 | .99E-06 | 64.117 | .34E-05 | 73.688 | .274E+03 | -172.508 | 2495.861 | 5.270 | 0.00000 |
| 37. | 2500.111 | 5.849 | .21E-05 | 0.00 | .97E-06 | 62.743 | .34E-05 | 73.496 | .247E+03 | -153.471 | 2500.107 | 5.850 | 0.00000 |
| 38. | 2504.799 | 6.398 | .21E-05 | 0.00 | .94E-06 | 61.373 | .34E-05 | 73.325 | .254E+03 | -132.539 | 2504.795 | 6.397 | 0.00000 |
| 39. | 2509.908 | 6.912 | .21E-05 | 0.00 | .92E-06 | 59.997 | .34E-05 | 73.177 | .296E+03 | -115.229 | 2509.902 | 6.909 | 0.00000 |
| 40. | 2515.412 | 7.388 | .21E-05 | 0.00 | .90E-06 | 58.606 | .34E-05 | 73.051 | .360E+03 | -103.308 | 2515.403 | 7.384 | 0.00000 |
| 41. | 2521.284 | 7.824 | .22E-05 | 0.00 | .87E-06 | 57.189 | .35E-05 | 72.945 | .437E+03 | -95.564 | 2521.271 | 7.818 | .00001 |
| 42. | 2527.495 | 8.217 | .22E-05 | 0.00 | .84E-06 | 55.734 | .35E-05 | 72.860 | .522E+03 | -90.529 | 2527.477 | 8.209 | .00001 |
| 43. | 2534.013 | 8.564 | .22E-05 | 0.00 | .81E-06 | 54.223 | .35E-05 | 72.796 | .611E+03 | -87.209 | 2533.988 | 8.555 | .00001 |
| 44. | 2540.804 | 8.864 | .22E-05 | 0.00 | .78E-06 | 52.637 | .35E-05 | 72.752 | .703E+03 | -85.001 | 2540.771 | 8.853 | .00001 |
| 45. | 2547.832 | 9.112 | .23E-05 | 0.00 | .75E-06 | 50.949 | .35E-05 | 72.727 | .797E+03 | -83.540 | 2547.789 | 9.100 | .00002 |
| 46. | 2555.056 | 9.307 | .23E-05 | 0.00 | .72E-06 | 49.126 | .35E-05 | 72.721 | .891E+03 | -82.600 | 2555.002 | 9.293 | .00002 |
| 47. | 2562.434 | 9.446 | .23E-05 | 0.00 | .68E-06 | 47.125 | .36E-05 | 72.733 | .986E+03 | -82.036 | 2562.368 | 9.430 | .00003 |
| 48. | 2569.921 | 9.524 | .23E-05 | 0.00 | .64E-06 | 44.888 | .36E-05 | 72.762 | .108E+04 | -81.750 | 2569.841 | 9.507 | .00003 |
| 49. | 2577.468 | 9.539 | .24E-05 | 0.00 | .60E-06 | 42.335 | .36E-05 | 72.809 | .117E+04 | -81.676 | 2577.373 | 9.520 | .00004 |

211-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2585.022 | 9.486 | .24E-05 | 0.00 | .56E-06 | 39.356 | .36E-05 | 72.871 | .127E+04 | -81.769 | 2584.911 | 9.466 | .00004 |
| 51. | 2592.525 | 9.360 | .24E-05 | 0.00 | .52E-06 | 35.795 | .36E-05 | 72.948 | .136E+04 | -81.994 | 2592.398 | 9.339 | .00005 |
| 52. | 2599.917 | 9.155 | .24E-05 | 0.00 | .47E-06 | 31.428 | .36E-05 | 73.040 | .145E+04 | -82.327 | 2599.771 | 9.134 | .00006 |
| 53. | 2607.129 | 8.867 | .24E-05 | 0.00 | .43E-06 | 25.928 | .36E-05 | 73.144 | .153E+04 | -82.750 | 2606.965 | 8.844 | .00006 |
| 54. | 2614.088 | 8.486 | .25E-05 | 0.00 | .39E-06 | 18.838 | .37E-05 | 73.261 | .162E+04 | -83.251 | 2613.906 | 8.464 | .00007 |
| 55. | 2620.716 | 8.007 | .25E-05 | 0.00 | .35E-06 | 9.562 | .37E-05 | 73.388 | .170E+04 | -83.817 | 2620.515 | 7.984 | .00008 |
| 56. | 2626.926 | 7.419 | .25E-05 | 0.00 | .32E-06 | -2.473 | .37E-05 | 73.524 | .177E+04 | -84.443 | 2626.707 | 7.398 | .00008 |
| 57. | 2632.624 | 6.715 | .25E-05 | 0.00 | .30E-06 | -17.289 | .37E-05 | 73.668 | .184E+04 | -85.120 | 2632.387 | 6.695 | .00009 |
| 58. | 2637.711 | 5.885 | .25E-05 | 0.00 | .31E-06 | -33.611 | .37E-05 | 73.819 | .190E+04 | -85.844 | 2637.458 | 5.867 | .00010 |
| 59. | 2642.079 | 4.923 | .25E-05 | 0.00 | .34E-06 | -49.114 | .37E-05 | 73.974 | .195E+04 | -86.610 | 2641.811 | 4.906 | .00010 |
| 60. | 2645.616 | 3.821 | .25E-05 | 0.00 | .39E-06 | -62.041 | .37E-05 | 74.132 | .199E+04 | -87.414 | 2645.336 | 3.808 | .00011 |
| 61. | 2648.208 | 2.579 | .25E-05 | 0.00 | .47E-06 | -72.035 | .37E-05 | 74.293 | .203E+04 | -88.250 | 2647.919 | 2.570 | .00011 |
| 62. | 2649.743 | 1.201 | .25E-05 | 0.00 | .55E-06 | -79.560 | .36E-05 | 74.453 | .204E+04 | -89.112 | 2649.448 | 1.197 | .00011 |
| 63. | 2650.115 | -.299 | .24E-05 | 0.00 | .65E-06 | -85.234 | .36E-05 | 74.613 | .205E+04 | -89.995 | 2649.818 | -.298 | .00011 |
| 64. | 2649.233 | -1.898 | .24E-05 | 0.00 | .75E-06 | -89.564 | .36E-05 | 74.772 | .204E+04 | -90.890 | 2648.940 | -1.892 | .00011 |
| 65. | 2647.032 | -3.562 | .24E-05 | 0.00 | .86E-06 | -92.914 | .35E-05 | 74.932 | .201E+04 | -91.788 | 2646.747 | -3.550 | .00011 |
| 66. | 2643.475 | -5.247 | .23E-05 | 0.00 | .97E-06 | -95.537 | .35E-05 | 75.092 | .197E+04 | -92.677 | 2643.202 | -5.230 | .00010 |
| 67. | 2638.565 | -6.902 | .22E-05 | 0.00 | .11E-05 | -97.605 | .34E-05 | 75.256 | .191E+04 | -93.546 | 2638.309 | -6.880 | .00010 |
| 68. | 2632.349 | -8.473 | .22E-05 | 0.00 | .12E-05 | -99.237 | .33E-05 | 75.428 | .184E+04 | -94.382 | 2632.112 | -8.449 | .00009 |
| 69. | 2624.912 | -9.914 | .21E-05 | 0.00 | .13E-05 | -100.517 | .32E-05 | 75.613 | .175E+04 | -95.171 | 2624.697 | -9.888 | .00008 |
| 70. | 2616.382 | -11.184 | .20E-05 | 0.00 | .14E-05 | -101.505 | .31E-05 | 75.815 | .166E+04 | -95.903 | 2616.189 | -11.157 | .00007 |
| 71. | 2606.912 | -12.254 | .20E-05 | 0.00 | .15E-05 | -102.243 | .31E-05 | 76.042 | .156E+04 | -96.565 | 2606.742 | -12.227 | .00007 |
| 72. | 2596.679 | -13.107 | .19E-05 | 0.00 | .15E-05 | -102.763 | .30E-05 | 76.300 | .146E+04 | -97.147 | 2596.532 | -13.081 | .00006 |
| 73. | 2585.870 | -13.737 | .18E-05 | 0.00 | .16E-05 | -103.090 | .29E-05 | 76.596 | .135E+04 | -97.642 | 2585.745 | -13.714 | .00005 |
| 74. | 2574.675 | -14.146 | .17E-05 | 0.00 | .17E-05 | -103.241 | .28E-05 | 76.935 | .124E+04 | -98.043 | 2574.569 | -14.125 | .00004 |
| 75. | 2563.279 | -14.342 | .16E-05 | 0.00 | .17E-05 | -103.230 | .27E-05 | 77.324 | .114E+04 | -98.345 | 2563.190 | -14.323 | .00003 |
| 76. | 2551.856 | -14.333 | .16E-05 | 0.00 | .18E-05 | -103.070 | .26E-05 | 77.768 | .104E+04 | -98.545 | 2551.782 | -14.317 | .00003 |
| 77. | 2540.570 | -14.134 | .15E-05 | 0.00 | .18E-05 | -102.770 | .26E-05 | 78.270 | .949E+03 | -98.638 | 2540.509 | -14.120 | .00002 |
| 78. | 2529.571 | -13.757 | .15E-05 | 0.00 | .18E-05 | -102.339 | .25E-05 | 78.835 | .860E+03 | -98.625 | 2529.521 | -13.745 | .00002 |
| 79. | 2518.994 | -13.215 | .14E-05 | 0.00 | .18E-05 | -101.785 | .24E-05 | 79.463 | .778E+03 | -98.502 | 2518.954 | -13.205 | .00002 |
| 80. | 2508.961 | -12.521 | .14E-05 | 0.00 | .19E-05 | -101.115 | .24E-05 | 80.156 | .703E+03 | -98.268 | 2508.928 | -12.513 | .00001 |
| 81. | 2499.579 | -11.687 | .13E-05 | 0.00 | .19E-05 | -100.337 | .23E-05 | 80.914 | .635E+03 | -97.923 | 2499.552 | -11.680 | .00001 |
| 82. | 2490.943 | -10.725 | .13E-05 | 0.00 | .19E-05 | -99.460 | .23E-05 | 81.736 | .574E+03 | -97.465 | 2490.921 | -10.719 | .00001 |
| 83. | 2483.136 | -9.647 | .13E-05 | 0.00 | .19E-05 | -98.490 | .23E-05 | 82.618 | .520E+03 | -96.892 | 2483.118 | -9.643 | .00001 |
| 84. | 2476.231 | -8.467 | .12E-05 | 0.00 | .19E-05 | -97.439 | .22E-05 | 83.556 | .474E+03 | -96.204 | 2476.216 | -8.464 | .00001 |
| 85. | 2470.287 | -7.198 | .12E-05 | 0.00 | .19E-05 | -96.314 | .22E-05 | 84.545 | .435E+03 | -95.401 | 2470.275 | -7.195 | 0.00000 |
| 86. | 2465.356 | -5.852 | .12E-05 | 0.00 | .19E-05 | -95.128 | .22E-05 | 85.579 | .403E+03 | -94.488 | 2465.345 | -5.850 | 0.00000 |
| 87. | 2461.479 | -4.444 | .12E-05 | 0.00 | .19E-05 | -93.892 | .22E-05 | 86.651 | .378E+03 | -93.472 | 2461.470 | -4.443 | 0.00000 |
| 88. | 2458.687 | -2.989 | .12E-05 | 0.00 | .19E-05 | -92.616 | .21E-05 | 87.751 | .360E+03 | -92.369 | 2458.679 | -2.988 | 0.00000 |
| 89. | 2457.004 | -1.503 | .12E-05 | 0.00 | .19E-05 | -91.315 | .21E-05 | 88.870 | .349E+03 | -91.202 | 2456.996 | -1.502 | 0.00000 |
| 90. | 2456.441 | 0.000 | .12E-05 | 0.00 | .19E-05 | -90.000 | .21E-05 | 90.000 | .346E+03 | -90.000 | 2456.433 | 0.000 | 0.00000 |
| 91. | 2457.004 | 1.503 | .12E-05 | 0.00 | .19E-05 | -88.685 | .21E-05 | 91.130 | .349E+03 | -88.798 | 2456.996 | 1.502 | 0.00000 |
| 92. | 2458.687 | 2.989 | .12E-05 | 0.00 | .19E-05 | -87.384 | .21E-05 | 92.249 | .360E+03 | -87.631 | 2458.679 | 2.988 | 0.00000 |
| 93. | 2461.479 | 4.444 | .12E-05 | 0.00 | .19E-05 | -86.108 | .22E-05 | 93.349 | .378E+03 | -86.528 | 2461.470 | 4.443 | 0.00000 |
| 94. | 2465.356 | 5.852 | .12E-05 | 0.00 | .19E-05 | -84.872 | .22E-05 | 94.421 | .403E+03 | -85.512 | 2465.345 | 5.850 | 0.00000 |
| 95. | 2470.287 | 7.198 | .12E-05 | 0.00 | .19E-05 | -83.686 | .22E-05 | 95.455 | .435E+03 | -84.599 | 2470.275 | 7.195 | 0.00000 |
| 96. | 2476.231 | 8.467 | .12E-05 | 0.00 | .19E-05 | -82.561 | .22E-05 | 96.444 | .474E+03 | -83.796 | 2476.216 | 8.464 | .00001 |
| 97. | 2483.136 | 9.647 | .13E-05 | 0.00 | .19E-05 | -81.510 | .23E-05 | 97.382 | .520E+03 | -83.108 | 2483.118 | 9.643 | .00001 |
| 98. | 2490.943 | 10.725 | .13E-05 | 0.00 | .19E-05 | -80.540 | .23E-05 | 98.264 | .574E+03 | -82.535 | 2490.921 | 10.719 | .00001 |
| 99. | 2499.579 | 11.687 | .13E-05 | 0.00 | .19E-05 | -79.663 | .23E-05 | 99.086 | .635E+03 | -82.077 | 2499.552 | 11.680 | .00001 |

211-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 2508.961 | 12.521 | .14E-05 | 0.00 | .19E-05 | -78.685 | .24E-05 | 99.844 | .703E+03 | -81.732 | 2508.928 | 12.513 | .00001 |
| 101. | 2518.994 | 13.215 | .14E-05 | 0.00 | .18E-05 | -78.215 | .24E-05 | 100.537 | .778E+03 | -81.498 | 2518.954 | 13.205 | .00002 |
| 102. | 2529.571 | 13.757 | .15E-05 | 0.00 | .18E-05 | -77.661 | .25E-05 | 101.165 | .860E+03 | -81.375 | 2529.521 | 13.745 | .00002 |
| 103. | 2540.570 | 14.134 | .15E-05 | 0.00 | .18E-05 | -77.230 | .26E-05 | 101.730 | .949E+03 | -81.362 | 2540.509 | 14.120 | .00002 |
| 104. | 2551.856 | 14.333 | .16E-05 | 0.00 | .18E-05 | -76.930 | .26E-05 | 102.232 | .104E+04 | -81.455 | 2551.782 | 14.317 | .00003 |
| 105. | 2563.279 | 14.342 | .16E-05 | 0.00 | .17E-05 | -76.770 | .27E-05 | 102.676 | .114E+04 | -81.655 | 2563.190 | 14.323 | .00003 |
| 106. | 2574.675 | 14.146 | .17E-05 | 0.00 | .17E-05 | -76.759 | .28E-05 | 103.065 | .124E+04 | -81.957 | 2574.569 | 14.125 | .00004 |
| 107. | 2585.870 | 13.737 | .18E-05 | 0.00 | .16E-05 | -76.910 | .29E-05 | 103.404 | .135E+04 | -82.358 | 2585.745 | 13.714 | .00005 |
| 108. | 2596.679 | 13.107 | .19E-05 | 0.00 | .15E-05 | -77.237 | .30E-05 | 103.700 | .146E+04 | -82.853 | 2596.532 | 13.081 | .00006 |
| 109. | 2606.912 | 12.254 | .20E-05 | 0.00 | .15E-05 | -77.757 | .31E-05 | 103.958 | .156E+04 | -83.435 | 2606.742 | 12.227 | .00007 |
| 110. | 2616.382 | 11.184 | .20E-05 | 0.00 | .14E-05 | -78.495 | .31E-05 | 104.185 | .166E+04 | -84.097 | 2616.189 | 11.157 | .00007 |
| 111. | 2624.912 | 9.914 | .21E-05 | 0.00 | .13E-05 | -79.483 | .32E-05 | 104.387 | .175E+04 | -84.829 | 2624.697 | 9.888 | .00008 |
| 112. | 2632.349 | 8.473 | .22E-05 | 0.00 | .12E-05 | -80.763 | .33E-05 | 104.572 | .184E+04 | -85.618 | 2632.112 | 8.449 | .00009 |
| 113. | 2638.565 | 6.902 | .22E-05 | 0.00 | .11E-05 | -82.395 | .34E-05 | 104.744 | .191E+04 | -86.454 | 2638.309 | 6.880 | .00010 |
| 114. | 2643.475 | 5.247 | .23E-05 | 0.00 | .97E-06 | -84.463 | .35E-05 | 104.908 | .197E+04 | -87.323 | 2643.202 | 5.230 | .00010 |
| 115. | 2647.032 | 3.562 | .24E-05 | 0.00 | .86E-06 | -87.086 | .35E-05 | 105.068 | .201E+04 | -88.212 | 2646.747 | 3.550 | .00011 |
| 116. | 2649.233 | 1.898 | .24E-05 | 0.00 | .75E-06 | -90.436 | .36E-05 | 105.228 | .204E+04 | -89.110 | 2648.940 | 1.892 | .00011 |
| 117. | 2650.115 | .299 | .24E-05 | 0.00 | .65E-06 | -94.766 | .36E-05 | 105.387 | .205E+04 | -90.005 | 2649.818 | .298 | .00011 |
| 118. | 2649.743 | -1.201 | .25E-05 | 0.00 | .55E-06 | -100.440 | .36E-05 | 105.547 | .204E+04 | -90.888 | 2649.448 | -1.197 | .00011 |
| 119. | 2648.208 | -2.579 | .25E-05 | 0.00 | .47E-06 | -107.965 | .37E-05 | 105.707 | .203E+04 | -91.750 | 2647.919 | -2.570 | .00011 |
| 120. | 2645.616 | -3.821 | .25E-05 | 0.00 | .39E-06 | -117.959 | .37E-05 | 105.868 | .199E+04 | -92.586 | 2645.336 | -3.808 | .00011 |
| 121. | 2642.079 | -4.923 | .25E-05 | 0.00 | .34E-06 | -130.886 | .37E-05 | 106.026 | .195E+04 | -93.390 | 2641.811 | -4.906 | .00010 |
| 122. | 2637.711 | -5.885 | .25E-05 | 0.00 | .31E-06 | -146.389 | .37E-05 | 106.181 | .190E+04 | -94.156 | 2637.458 | -5.867 | .00010 |
| 123. | 2632.624 | -6.715 | .25E-05 | 0.00 | .30E-06 | -162.711 | .37E-05 | 106.332 | .184E+04 | -94.880 | 2632.387 | -6.695 | .00009 |
| 124. | 2626.926 | -7.419 | .25E-05 | 0.00 | .32E-06 | -177.527 | .37E-05 | 106.476 | .177E+04 | -95.557 | 2626.707 | -7.398 | .00008 |
| 125. | 2620.716 | -8.007 | .25E-05 | 0.00 | .35E-06 | 170.438 | .37E-05 | 106.612 | .170E+04 | -96.183 | 2620.515 | -7.984 | .00008 |
| 126. | 2614.088 | -8.486 | .25E-05 | 0.00 | .39E-06 | 161.162 | .37E-05 | 106.739 | .162E+04 | -96.749 | 2613.906 | -8.464 | .00007 |
| 127. | 2607.129 | -8.867 | .24E-05 | 0.00 | .43E-06 | 154.072 | .36E-05 | 106.856 | .153E+04 | -97.250 | 2606.965 | -8.844 | .00006 |
| 128. | 2599.917 | -9.155 | .24E-05 | 0.00 | .47E-06 | 148.572 | .36E-05 | 106.960 | .145E+04 | -97.673 | 2599.771 | -9.134 | .00006 |
| 129. | 2592.525 | -9.360 | .24E-05 | 0.00 | .52E-06 | 144.205 | .36E-05 | 107.052 | .136E+04 | -98.006 | 2592.398 | -9.339 | .00005 |
| 130. | 2585.022 | -9.486 | .24E-05 | 0.00 | .56E-06 | 140.644 | .36E-05 | 107.129 | .127E+04 | -98.231 | 2584.911 | -9.466 | .00004 |
| 131. | 2577.468 | -9.539 | .24E-05 | 0.00 | .60E-06 | 137.665 | .36E-05 | 107.191 | .117E+04 | -98.324 | 2577.373 | -9.520 | .00004 |
| 132. | 2569.921 | -9.524 | .23E-05 | 0.00 | .64E-06 | 135.112 | .36E-05 | 107.238 | .108E+04 | -98.250 | 2569.841 | -9.507 | .00003 |
| 133. | 2562.434 | -9.446 | .23E-05 | 0.00 | .68E-06 | 132.875 | .36E-05 | 107.267 | .986E+03 | -97.964 | 2562.368 | -9.430 | .00003 |
| 134. | 2555.056 | -9.307 | .23E-05 | 0.00 | .72E-06 | 130.874 | .35E-05 | 107.279 | .891E+03 | -97.400 | 2555.002 | -9.293 | .00002 |
| 135. | 2547.832 | -9.112 | .23E-05 | 0.00 | .75E-06 | 129.051 | .35E-05 | 107.273 | .797E+03 | -96.460 | 2547.789 | -9.100 | .00002 |
| 136. | 2540.804 | -8.864 | .22E-05 | 0.00 | .78E-06 | 127.363 | .35E-05 | 107.248 | .703E+03 | -94.999 | 2540.771 | -8.853 | .00001 |
| 137. | 2534.013 | -8.564 | .22E-05 | 0.00 | .81E-06 | 125.777 | .35E-05 | 107.204 | .611E+03 | -92.791 | 2533.988 | -8.555 | .00001 |
| 138. | 2527.495 | -8.217 | .22E-05 | 0.00 | .84E-06 | 124.266 | .35E-05 | 107.140 | .522E+03 | -89.471 | 2527.477 | -8.209 | .00001 |
| 139. | 2521.284 | -7.824 | .22E-05 | 0.00 | .87E-06 | 122.811 | .35E-05 | 107.055 | .437E+03 | -84.436 | 2521.271 | -7.818 | .00001 |
| 140. | 2515.412 | -7.388 | .21E-05 | 0.00 | .90E-06 | 121.394 | .34E-05 | 106.949 | .360E+03 | -76.692 | 2515.403 | -7.384 | 0.00000 |
| 141. | 2509.908 | -6.912 | .21E-05 | 0.00 | .92E-06 | 120.003 | .34E-05 | 106.823 | .296E+03 | -64.771 | 2509.902 | -6.909 | 0.00000 |
| 142. | 2504.799 | -6.398 | .21E-05 | 0.00 | .94E-06 | 118.627 | .34E-05 | 106.675 | .254E+03 | -47.461 | 2504.795 | -6.397 | 0.00000 |
| 143. | 2500.111 | -5.849 | .21E-05 | 0.00 | .97E-06 | 117.257 | .34E-05 | 106.504 | .247E+03 | -26.529 | 2500.107 | -5.850 | 0.00000 |
| 144. | 2495.866 | -5.268 | .20E-05 | 0.00 | .99E-06 | 115.883 | .34E-05 | 106.312 | .274E+03 | -7.492 | 2495.861 | -5.270 | 0.00000 |
| 145. | 2492.085 | -4.657 | .20E-05 | 0.00 | .10E-05 | 114.500 | .34E-05 | 106.098 | .328E+03 | 6.229 | 2492.077 | -4.661 | 0.00000 |
| 146. | 2488.785 | -4.020 | .20E-05 | 0.00 | .10E-05 | 113.102 | .34E-05 | 105.861 | .395E+03 | 15.176 | 2488.775 | -4.025 | 0.00000 |
| 147. | 2485.984 | -3.360 | .20E-05 | 0.00 | .10E-05 | 111.683 | .33E-05 | 105.602 | .471E+03 | 20.897 | 2485.969 | -3.366 | .00001 |
| 148. | 2483.695 | -2.679 | .20E-05 | 0.00 | .11E-05 | 110.239 | .33E-05 | 105.320 | .550E+03 | 24.562 | 2483.675 | -2.687 | .00001 |
| 149. | 2481.931 | -1.982 | .19E-05 | 0.00 | .11E-05 | 108.765 | .33E-05 | 105.016 | .632E+03 | 26.897 | 2481.905 | -1.991 | .00001 |

211-CUT GALLIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2480.701 | -1.271 | .19E-05 | 0.00 | .11E-05 | 107.258 | .33E-05 | 104.690 | .714E+03 | 28.337 | 2480.667 | -1.281 | .00001 |
| 151. | 2480.012 | -.551 | .19E-05 | 0.00 | .11E-05 | 105.713 | .33E-05 | 104.342 | .795E+03 | 29.150 | 2479.970 | -.562 | .00002 |
| 152. | 2479.869 | .175 | .19E-05 | 0.00 | .11E-05 | 104.129 | .33E-05 | 103.973 | .877E+03 | 29.508 | 2479.819 | .163 | .00002 |
| 153. | 2480.277 | .903 | .19E-05 | 0.00 | .11E-05 | 102.501 | .33E-05 | 103.583 | .957E+03 | 29.522 | 2480.216 | .890 | .00002 |
| 154. | 2481.234 | 1.630 | .19E-05 | 0.00 | .11E-05 | 100.827 | .33E-05 | 103.173 | .104E+04 | 29.269 | 2481.163 | 1.615 | .00003 |
| 155. | 2482.740 | 2.350 | .18E-05 | 0.00 | .12E-05 | 99.104 | .33E-05 | 102.744 | .111E+04 | 28.804 | 2482.657 | 2.335 | .00003 |
| 156. | 2484.789 | 3.062 | .18E-05 | 0.00 | .12E-05 | 97.330 | .33E-05 | 102.296 | .119E+04 | 28.164 | 2484.695 | 3.046 | .00004 |
| 157. | 2487.377 | 3.760 | .18E-05 | 0.00 | .12E-05 | 95.503 | .33E-05 | 101.832 | .127E+04 | 27.379 | 2487.270 | 3.744 | .00004 |
| 158. | 2490.492 | 4.442 | .18E-05 | 0.00 | .12E-05 | 93.620 | .33E-05 | 101.352 | .134E+04 | 26.469 | 2490.373 | 4.424 | .00005 |
| 159. | 2494.125 | 5.102 | .18E-05 | 0.00 | .12E-05 | 91.680 | .33E-05 | 100.858 | .141E+04 | 25.452 | 2493.992 | 5.084 | .00005 |
| 160. | 2498.260 | 5.738 | .18E-05 | 0.00 | .12E-05 | 89.682 | .33E-05 | 100.352 | .148E+04 | 24.340 | 2498.113 | 5.720 | .00006 |
| 161. | 2502.881 | 6.345 | .18E-05 | 0.00 | .12E-05 | 87.623 | .33E-05 | 99.836 | .155E+04 | 23.144 | 2502.720 | 6.327 | .00006 |
| 162. | 2507.968 | 6.920 | .18E-05 | 0.00 | .12E-05 | 85.502 | .33E-05 | 99.312 | .162E+04 | 21.871 | 2507.792 | 6.901 | .00007 |
| 163. | 2513.498 | 7.459 | .18E-05 | 0.00 | .12E-05 | 83.320 | .33E-05 | 98.783 | .169E+04 | 20.530 | 2513.308 | 7.440 | .00008 |
| 164. | 2519.446 | 7.958 | .18E-05 | 0.00 | .12E-05 | 81.075 | .33E-05 | 98.252 | .175E+04 | 19.125 | 2519.240 | 7.939 | .00008 |
| 165. | 2525.781 | 8.412 | .18E-05 | 0.00 | .12E-05 | 78.767 | .33E-05 | 97.722 | .181E+04 | 17.661 | 2525.561 | 8.393 | .00009 |
| 166. | 2532.472 | 8.817 | .18E-05 | 0.00 | .12E-05 | 76.398 | .33E-05 | 97.197 | .187E+04 | 16.144 | 2532.236 | 8.798 | .00009 |
| 167. | 2539.480 | 9.168 | .18E-05 | 0.00 | .12E-05 | 73.969 | .33E-05 | 96.680 | .193E+04 | 14.578 | 2539.229 | 9.149 | .00010 |
| 168. | 2546.763 | 9.458 | .18E-05 | 0.00 | .12E-05 | 71.482 | .34E-05 | 96.175 | .198E+04 | 12.966 | 2546.496 | 9.440 | .00010 |
| 169. | 2554.272 | 9.679 | .18E-05 | 0.00 | .12E-05 | 68.944 | .34E-05 | 95.687 | .204E+04 | 11.314 | 2553.990 | 9.662 | .00011 |
| 170. | 2561.950 | 9.823 | .19E-05 | 0.00 | .12E-05 | 66.360 | .34E-05 | 95.221 | .209E+04 | 9.625 | 2561.653 | 9.806 | .00012 |
| 171. | 2569.732 | 9.876 | .19E-05 | 0.00 | .11E-05 | 63.740 | .34E-05 | 94.781 | .214E+04 | 7.907 | 2569.420 | 9.859 | .00012 |
| 172. | 2577.538 | 9.820 | .19E-05 | 0.00 | .11E-05 | 61.100 | .34E-05 | 94.374 | .218E+04 | 6.169 | 2577.211 | 9.803 | .00013 |
| 173. | 2585.270 | 9.631 | .19E-05 | 0.00 | .11E-05 | 58.462 | .35E-05 | 94.003 | .223E+04 | 4.422 | 2584.928 | 9.614 | .00013 |
| 174. | 2592.806 | 9.273 | .20E-05 | 0.00 | .10E-05 | 55.858 | .35E-05 | 93.676 | .227E+04 | 2.687 | 2592.450 | 9.256 | .00014 |
| 175. | 2599.986 | 8.693 | .20E-05 | 0.00 | .92E-06 | 53.337 | .35E-05 | 93.396 | .231E+04 | .993 | 2599.616 | 8.676 | .00014 |
| 176. | 2606.602 | 7.819 | .20E-05 | 0.00 | .81E-06 | 50.972 | .36E-05 | 93.168 | .235E+04 | -.611 | 2606.217 | 7.802 | .00015 |
| 177. | 2612.375 | 6.557 | .21E-05 | 0.00 | .66E-06 | 48.868 | .36E-05 | 92.994 | .239E+04 | -2.055 | 2611.976 | 6.541 | .00015 |
| 178. | 2616.954 | 4.816 | .21E-05 | 0.00 | .48E-06 | 47.168 | .37E-05 | 92.874 | .243E+04 | -3.235 | 2616.542 | 4.803 | .00016 |
| 179. | 2619.938 | 2.578 | .21E-05 | 0.00 | .25E-06 | 46.043 | .37E-05 | 92.805 | .246E+04 | -4.022 | 2619.517 | 2.570 | .00016 |
| 180. | 2620.979 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .37E-05 | 92.783 | .246E+04 | -4.093 | 2620.556 | 0.000 | .00016 |

110-CUT GERMANIUM

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 2648.424 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .36E-05 | 90.000 |
| 1. | 2648.643 | .542 | .20E-05 | 0.00 | .11E-07 | 0.000 | .36E-05 | 90.000 |
| 2. | 2649.298 | 1.081 | .20E-05 | 0.00 | .23E-07 | 0.000 | .36E-05 | 90.000 |
| 3. | 2650.388 | 1.617 | .20E-05 | 0.00 | .34E-07 | 0.000 | .36E-05 | 90.000 |
| 4. | 2651.908 | 2.146 | .20E-05 | 0.00 | .46E-07 | 0.000 | .36E-05 | 90.000 |
| 5. | 2653.854 | 2.666 | .20E-05 | 0.00 | .58E-07 | 0.000 | .36E-05 | 90.000 |
| 6. | 2656.219 | 3.176 | .20E-05 | 0.00 | .70E-07 | 0.000 | .36E-05 | 90.000 |
| 7. | 2658.997 | 3.674 | .21E-05 | 0.00 | .82E-07 | 0.000 | .36E-05 | 90.000 |
| 8. | 2662.176 | 4.158 | .21E-05 | 0.00 | .95E-07 | 0.000 | .36E-05 | 90.000 |
| 9. | 2665.748 | 4.625 | .21E-05 | 0.00 | .11E-06 | 0.000 | .36E-05 | 90.000 |
| 10. | 2669.699 | 5.073 | .21E-05 | 0.00 | .12E-06 | 0.000 | .36E-05 | 90.000 |
| 11. | 2674.017 | 5.502 | .21E-05 | 0.00 | .14E-06 | 0.000 | .36E-05 | 90.000 |
| 12. | 2678.685 | 5.909 | .21E-05 | 0.00 | .15E-06 | 0.000 | .36E-05 | 90.000 |
| 13. | 2683.689 | 6.293 | .21E-05 | 0.00 | .17E-06 | 0.000 | .36E-05 | 90.000 |
| 14. | 2689.010 | 6.652 | .21E-05 | 0.00 | .18E-06 | 0.000 | .36E-05 | 90.000 |
| 15. | 2694.628 | 6.983 | .21E-05 | 0.00 | .20E-06 | 0.000 | .36E-05 | 90.000 |
| 16. | 2700.524 | 7.286 | .21E-05 | 0.00 | .21E-06 | 0.000 | .36E-05 | 90.000 |
| 17. | 2706.673 | 7.559 | .21E-05 | 0.00 | .23E-06 | 0.000 | .36E-05 | 90.000 |
| 18. | 2713.053 | 7.800 | .21E-05 | 0.00 | .25E-06 | 0.000 | .36E-05 | 90.000 |
| 19. | 2719.638 | 8.008 | .21E-05 | 0.00 | .27E-06 | 0.000 | .36E-05 | 90.000 |
| 20. | 2726.399 | 8.180 | .21E-05 | 0.00 | .29E-06 | 0.000 | .36E-05 | 90.000 |
| 21. | 2733.308 | 8.315 | .21E-05 | 0.00 | .31E-06 | 0.000 | .36E-05 | 90.000 |
| 22. | 2740.334 | 8.412 | .21E-05 | 0.00 | .33E-06 | 0.000 | .36E-05 | 90.000 |
| 23. | 2747.442 | 8.467 | .21E-05 | 0.00 | .36E-06 | 0.000 | .36E-05 | 90.000 |
| 24. | 2754.597 | 8.478 | .21E-05 | 0.00 | .38E-06 | 0.000 | .36E-05 | 90.000 |
| 25. | 2761.762 | 8.444 | .21E-05 | 0.00 | .40E-06 | 0.000 | .36E-05 | 90.000 |
| 26. | 2768.896 | 8.362 | .21E-05 | 0.00 | .43E-06 | 0.000 | .36E-05 | 90.000 |
| 27. | 2775.955 | 8.229 | .21E-05 | 0.00 | .45E-06 | 0.000 | .36E-05 | 90.000 |
| 28. | 2782.893 | 8.042 | .21E-05 | 0.00 | .47E-06 | 0.000 | .36E-05 | 90.000 |
| 29. | 2789.663 | 7.798 | .22E-05 | 0.00 | .49E-06 | 0.000 | .36E-05 | 90.000 |
| 30. | 2796.211 | 7.494 | .22E-05 | 0.00 | .52E-06 | 0.000 | .36E-05 | 90.000 |
| 31. | 2802.484 | 7.128 | .22E-05 | 0.00 | .53E-06 | 0.000 | .36E-05 | 90.000 |
| 32. | 2808.424 | 6.697 | .22E-05 | 0.00 | .55E-06 | 0.000 | .36E-05 | 90.000 |
| 33. | 2813.975 | 6.201 | .22E-05 | 0.00 | .56E-06 | 0.000 | .36E-05 | 90.000 |
| 34. | 2819.078 | 5.642 | .22E-05 | 0.00 | .56E-06 | 0.000 | .36E-05 | 90.000 |
| 35. | 2823.678 | 5.024 | .22E-05 | 0.00 | .56E-06 | 0.000 | .36E-05 | 90.000 |
| 36. | 2827.728 | 4.358 | .22E-05 | 0.00 | .55E-06 | 0.000 | .36E-05 | 90.000 |
| 37. | 2831.190 | 3.659 | .22E-05 | 0.00 | .54E-06 | 0.000 | .36E-05 | 90.000 |
| 38. | 2834.045 | 2.951 | .22E-05 | 0.00 | .51E-06 | 0.000 | .35E-05 | 90.000 |
| 39. | 2836.296 | 2.264 | .21E-05 | 0.00 | .47E-06 | 0.000 | .35E-05 | 90.000 |
| 40. | 2837.976 | 1.634 | .21E-05 | 0.00 | .42E-06 | 0.000 | .34E-05 | 90.000 |
| 41. | 2839.149 | 1.098 | .21E-05 | 0.00 | .37E-06 | 0.000 | .34E-05 | 90.000 |
| 42. | 2839.911 | .687 | .21E-05 | 0.00 | .31E-06 | 0.000 | .33E-05 | 90.000 |
| 43. | 2840.381 | .425 | .20E-05 | 0.00 | .25E-06 | 0.000 | .33E-05 | 90.000 |
| 44. | 2840.694 | .325 | .20E-05 | 0.00 | .19E-06 | 0.000 | .32E-05 | 90.000 |
| 45. | 2840.990 | .385 | .20E-05 | 0.00 | .14E-06 | 0.000 | .32E-05 | 90.000 |
| 46. | 2841.403 | .593 | .20E-05 | 0.00 | .90E-07 | 0.000 | .31E-05 | 90.000 |
| 47. | 2842.053 | .930 | .20E-05 | 0.00 | .54E-07 | 0.000 | .31E-05 | 90.000 |
| 48. | 2843.043 | 1.371 | .19E-05 | 0.00 | .27E-07 | 0.000 | .31E-05 | 90.000 |
| 49. | 2844.451 | 1.890 | .19E-05 | 0.00 | .12E-07 | 0.000 | .31E-05 | 90.000 |

110-CUT GERMANIUM

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 2846.336 | 2.462 | .19E-05 | 0.00 | .72E-08 | 0.000 | .31E-05 | 90.000 |
| 51. | 2848.732 | 3.061 | .19E-05 | 0.00 | .13E-07 | 0.000 | .31E-05 | 90.000 |
| 52. | 2851.656 | 3.666 | .20E-05 | 0.00 | .30E-07 | 0.000 | .31E-05 | 90.000 |
| 53. | 2855.106 | 4.256 | .20E-05 | 0.00 | .55E-07 | 0.000 | .31E-05 | 90.000 |
| 54. | 2859.065 | 4.816 | .20E-05 | 0.00 | .89E-07 | 0.000 | .31E-05 | 90.000 |
| 55. | 2863.502 | 5.331 | .20E-05 | 0.00 | .13E-06 | 0.000 | .31E-05 | 90.000 |
| 56. | 2868.376 | 5.791 | .21E-05 | 0.00 | .18E-06 | 0.000 | .31E-05 | 90.000 |
| 57. | 2873.640 | 6.190 | .21E-05 | 0.00 | .22E-06 | 0.000 | .31E-05 | 90.000 |
| 58. | 2879.237 | 6.523 | .22E-05 | 0.00 | .28E-06 | 0.000 | .32E-05 | 90.000 |
| 59. | 2885.113 | 6.789 | .22E-05 | 0.00 | .33E-06 | 0.000 | .32E-05 | 90.000 |
| 60. | 2891.207 | 6.988 | .23E-05 | 0.00 | .38E-06 | 0.000 | .32E-05 | 90.000 |
| 61. | 2897.464 | 7.123 | .23E-05 | 0.00 | .43E-06 | 0.000 | .33E-05 | 90.000 |
| 62. | 2903.829 | 7.199 | .24E-05 | 0.00 | .48E-06 | 0.000 | .33E-05 | 90.000 |
| 63. | 2910.251 | 7.219 | .24E-05 | 0.00 | .52E-06 | 0.000 | .33E-05 | 90.000 |
| 64. | 2916.683 | 7.191 | .25E-05 | 0.00 | .56E-06 | 0.000 | .34E-05 | 90.000 |
| 65. | 2923.083 | 7.118 | .25E-05 | 0.00 | .59E-06 | 0.000 | .34E-05 | 90.000 |
| 66. | 2929.413 | 7.007 | .26E-05 | 0.00 | .61E-06 | 0.000 | .34E-05 | 90.000 |
| 67. | 2935.641 | 6.863 | .26E-05 | 0.00 | .63E-06 | 0.000 | .34E-05 | 90.000 |
| 68. | 2941.737 | 6.689 | .27E-05 | 0.00 | .64E-06 | 0.000 | .35E-05 | 90.000 |
| 69. | 2947.676 | 6.491 | .27E-05 | 0.00 | .65E-06 | 0.000 | .35E-05 | 90.000 |
| 70. | 2953.437 | 6.271 | .28E-05 | 0.00 | .65E-06 | 0.000 | .35E-05 | 90.000 |
| 71. | 2959.000 | 6.033 | .28E-05 | 0.00 | .65E-06 | 0.000 | .35E-05 | 90.000 |
| 72. | 2964.349 | 5.780 | .29E-05 | 0.00 | .64E-06 | 0.000 | .36E-05 | 90.000 |
| 73. | 2969.469 | 5.512 | .29E-05 | 0.00 | .63E-06 | 0.000 | .36E-05 | 90.000 |
| 74. | 2974.348 | 5.233 | .29E-05 | 0.00 | .61E-06 | 0.000 | .36E-05 | 90.000 |
| 75. | 2978.975 | 4.944 | .30E-05 | 0.00 | .59E-06 | 0.000 | .36E-05 | 90.000 |
| 76. | 2983.340 | 4.646 | .30E-05 | 0.00 | .56E-06 | 0.000 | .36E-05 | 90.000 |
| 77. | 2987.435 | 4.341 | .30E-05 | 0.00 | .53E-06 | 0.000 | .36E-05 | 90.000 |
| 78. | 2991.253 | 4.028 | .30E-05 | 0.00 | .50E-06 | 0.000 | .36E-05 | 90.000 |
| 79. | 2994.787 | 3.710 | .31E-05 | 0.00 | .47E-06 | 0.000 | .36E-05 | 90.000 |
| 80. | 2998.030 | 3.387 | .31E-05 | 0.00 | .43E-06 | 0.000 | .37E-05 | 90.000 |
| 81. | 3000.979 | 3.060 | .31E-05 | 0.00 | .39E-06 | 0.000 | .37E-05 | 90.000 |
| 82. | 3003.629 | 2.729 | .31E-05 | 0.00 | .35E-06 | 0.000 | .37E-05 | 90.000 |
| 83. | 3005.976 | 2.394 | .31E-05 | 0.00 | .31E-06 | 0.000 | .37E-05 | 90.000 |
| 84. | 3008.016 | 2.057 | .31E-05 | 0.00 | .27E-06 | 0.000 | .37E-05 | 90.000 |
| 85. | 3009.746 | 1.718 | .31E-05 | 0.00 | .23E-06 | 0.000 | .37E-05 | 90.000 |
| 86. | 3011.166 | 1.376 | .32E-05 | 0.00 | .18E-06 | 0.000 | .37E-05 | 90.000 |
| 87. | 3012.272 | 1.034 | .32E-05 | 0.00 | .14E-06 | 0.000 | .37E-05 | 90.000 |
| 88. | 3013.062 | .690 | .32E-05 | 0.00 | .92E-07 | 0.000 | .37E-05 | 90.000 |
| 89. | 3013.537 | .345 | .32E-05 | 0.00 | .46E-07 | 0.000 | .37E-05 | 90.000 |
| 90. | 3013.696 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .37E-05 | 90.000 |
| 91. | 3013.537 | -.345 | .32E-05 | 0.00 | .46E-07 | 180.000 | .37E-05 | 90.000 |
| 92. | 3013.062 | -.690 | .32E-05 | 0.00 | .92E-07 | 180.000 | .37E-05 | 90.000 |
| 93. | 3012.272 | -1.034 | .32E-05 | 0.00 | .14E-06 | 180.000 | .37E-05 | 90.000 |
| 94. | 3011.166 | -1.376 | .32E-05 | 0.00 | .18E-06 | 180.000 | .37E-05 | 90.000 |
| 95. | 3009.746 | -1.718 | .31E-05 | 0.00 | .23E-06 | 180.000 | .37E-05 | 90.000 |
| 96. | 3008.016 | -2.057 | .31E-05 | 0.00 | .27E-06 | -180.000 | .37E-05 | 90.000 |
| 97. | 3005.976 | -2.394 | .31E-05 | 0.00 | .31E-06 | 180.000 | .37E-05 | 90.000 |
| 98. | 3003.629 | -2.729 | .31E-05 | 0.00 | .35E-06 | 180.000 | .37E-05 | 90.000 |
| 99. | 3000.979 | -3.060 | .31E-05 | 0.00 | .39E-06 | 180.000 | .37E-05 | 90.000 |

110-CUT GERMANIUM

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 2998.030 | -3.387 | .31E-05 | 0.00 | .43E-06 | 180.000 | .37E-05 | 90.000 |
| 101. | 2994.787 | -3.710 | .31E-05 | 0.00 | .47E-06 | 180.000 | .36E-05 | 90.000 |
| 102. | 2991.253 | -4.028 | .30E-05 | 0.00 | .50E-06 | -180.000 | .36E-05 | 90.000 |
| 103. | 2987.435 | -4.341 | .30E-05 | 0.00 | .53E-06 | -180.000 | .36E-05 | 90.000 |
| 104. | 2983.340 | -4.646 | .30E-05 | 0.00 | .56E-06 | 180.000 | .36E-05 | 90.000 |
| 105. | 2978.975 | -4.944 | .30E-05 | 0.00 | .59E-06 | 180.000 | .36E-05 | 90.000 |
| 106. | 2974.348 | -5.233 | .29E-05 | 0.00 | .61E-06 | 180.000 | .36E-05 | 90.000 |
| 107. | 2969.469 | -5.512 | .29E-05 | 0.00 | .63E-06 | 180.000 | .36E-05 | 90.000 |
| 108. | 2964.349 | -5.780 | .29E-05 | 0.00 | .64E-06 | 180.000 | .36E-05 | 90.000 |
| 109. | 2959.000 | -6.033 | .28E-05 | 0.00 | .65E-06 | -180.000 | .35E-05 | 90.000 |
| 110. | 2953.437 | -6.271 | .28E-05 | 0.00 | .65E-06 | 180.000 | .35E-05 | 90.000 |
| 111. | 2947.676 | -6.491 | .27E-05 | 0.00 | .65E-06 | 180.000 | .35E-05 | 90.000 |
| 112. | 2941.737 | -6.689 | .27E-05 | 0.00 | .64E-06 | 180.000 | .35E-05 | 90.000 |
| 113. | 2935.641 | -6.863 | .26E-05 | 0.00 | .63E-06 | 180.000 | .34E-05 | 90.000 |
| 114. | 2929.413 | -7.007 | .26E-05 | 0.00 | .61E-06 | 180.000 | .34E-05 | 90.000 |
| 115. | 2923.083 | -7.118 | .25E-05 | 0.00 | .59E-06 | -180.000 | .34E-05 | 90.000 |
| 116. | 2916.683 | -7.191 | .25E-05 | 0.00 | .56E-06 | 180.000 | .34E-05 | 90.000 |
| 117. | 2910.251 | -7.219 | .24E-05 | 0.00 | .52E-06 | 180.000 | .33E-05 | 90.000 |
| 118. | 2903.829 | -7.199 | .24E-05 | 0.00 | .48E-06 | -180.000 | .33E-05 | 90.000 |
| 119. | 2897.464 | -7.123 | .23E-05 | 0.00 | .43E-06 | -180.000 | .33E-05 | 90.000 |
| 120. | 2891.207 | -6.988 | .23E-05 | 0.00 | .38E-06 | -180.000 | .32E-05 | 90.000 |
| 121. | 2885.113 | -6.789 | .22E-05 | 0.00 | .33E-06 | 180.000 | .32E-05 | 90.000 |
| 122. | 2879.237 | -6.523 | .22E-05 | 0.00 | .28E-06 | 180.000 | .32E-05 | 90.000 |
| 123. | 2873.640 | -6.190 | .21E-05 | 0.00 | .22E-06 | 180.000 | .31E-05 | 90.000 |
| 124. | 2868.376 | -5.791 | .21E-05 | 0.00 | .18E-06 | -180.000 | .31E-05 | 90.000 |
| 125. | 2863.502 | -5.331 | .20E-05 | 0.00 | .13E-06 | 180.000 | .31E-05 | 90.000 |
| 126. | 2859.065 | -4.816 | .20E-05 | 0.00 | .89E-07 | 180.000 | .31E-05 | 90.000 |
| 127. | 2855.106 | -4.256 | .20E-05 | 0.00 | .55E-07 | 180.000 | .31E-05 | 90.000 |
| 128. | 2851.656 | -3.666 | .20E-05 | 0.00 | .30E-07 | -180.000 | .31E-05 | 90.000 |
| 129. | 2848.732 | -3.061 | .19E-05 | 0.00 | .13E-07 | -180.000 | .31E-05 | 90.000 |
| 130. | 2846.336 | -2.462 | .19E-05 | 0.00 | .72E-08 | 180.000 | .31E-05 | 90.000 |
| 131. | 2844.451 | -1.890 | .19E-05 | 0.00 | .12E-07 | 180.000 | .31E-05 | 90.000 |
| 132. | 2843.043 | -1.371 | .19E-05 | 0.00 | .27E-07 | -180.000 | .31E-05 | 90.000 |
| 133. | 2842.053 | -.930 | .20E-05 | 0.00 | .54E-07 | 180.000 | .31E-05 | 90.000 |
| 134. | 2841.403 | -.593 | .20E-05 | 0.00 | .90E-07 | 180.000 | .31E-05 | 90.000 |
| 135. | 2840.990 | -.385 | .20E-05 | 0.00 | .14E-06 | 180.000 | .32E-05 | 90.000 |
| 136. | 2840.694 | -.325 | .20E-05 | 0.00 | .19E-06 | -180.000 | .32E-05 | 90.000 |
| 137. | 2840.381 | -.425 | .20E-05 | 0.00 | .25E-06 | 180.000 | .33E-05 | 90.000 |
| 138. | 2839.911 | -.687 | .21E-05 | 0.00 | .31E-06 | -180.000 | .33E-05 | 90.000 |
| 139. | 2839.149 | -1.098 | .21E-05 | 0.00 | .37E-06 | 180.000 | .34E-05 | 90.000 |
| 140. | 2837.976 | -1.634 | .21E-05 | 0.00 | .42E-06 | -180.000 | .34E-05 | 90.000 |
| 141. | 2836.296 | -2.264 | .21E-05 | 0.00 | .47E-06 | -180.000 | .35E-05 | 90.000 |
| 142. | 2834.045 | -2.951 | .22E-05 | 0.00 | .51E-06 | -180.000 | .35E-05 | 90.000 |
| 143. | 2831.190 | -3.659 | .22E-05 | 0.00 | .54E-06 | 180.000 | .36E-05 | 90.000 |
| 144. | 2827.728 | -4.358 | .22E-05 | 0.00 | .55E-06 | 180.000 | .36E-05 | 90.000 |
| 145. | 2823.678 | -5.024 | .22E-05 | 0.00 | .56E-06 | 180.000 | .36E-05 | 90.000 |
| 146. | 2819.078 | -5.642 | .22E-05 | 0.00 | .56E-06 | 180.000 | .36E-05 | 90.000 |
| 147. | 2813.975 | -6.201 | .22E-05 | 0.00 | .56E-06 | 180.000 | .36E-05 | 90.000 |
| 148. | 2808.424 | -6.697 | .22E-05 | 0.00 | .55E-06 | -180.000 | .36E-05 | 90.000 |
| 149. | 2802.484 | -7.128 | .22E-05 | 0.00 | .53E-06 | -180.000 | .36E-05 | 90.000 |

110-CUT GERMANIUM

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 2796.211 | -7.494 | .22E-05 | 0.00 | .52E-06 | 180.000 | .36E-05 | 90.000 |
| 151. | 2789.663 | -7.798 | .22E-05 | 0.00 | .49E-06 | 180.000 | .36E-05 | 90.000 |
| 152. | 2782.893 | -8.042 | .21E-05 | 0.00 | .47E-06 | 180.000 | .36E-05 | 90.000 |
| 153. | 2775.955 | -8.229 | .21E-05 | 0.00 | .45E-06 | 180.000 | .36E-05 | 90.000 |
| 154. | 2768.896 | -8.362 | .21E-05 | 0.00 | .43E-06 | 180.000 | .36E-05 | 90.000 |
| 155. | 2761.762 | -8.444 | .21E-05 | 0.00 | .40E-06 | 180.000 | .36E-05 | 90.000 |
| 156. | 2754.597 | -8.478 | .21E-05 | 0.00 | .38E-06 | 180.000 | .36E-05 | 90.000 |
| 157. | 2747.442 | -8.467 | .21E-05 | 0.00 | .36E-06 | 180.000 | .36E-05 | 90.000 |
| 158. | 2740.334 | -8.412 | .21E-05 | 0.00 | .33E-06 | 180.000 | .36E-05 | 90.000 |
| 159. | 2733.308 | -8.315 | .21E-05 | 0.00 | .31E-06 | 180.000 | .36E-05 | 90.000 |
| 160. | 2726.399 | -8.180 | .21E-05 | 0.00 | .29E-06 | 180.000 | .36E-05 | 90.000 |
| 161. | 2719.638 | -8.008 | .21E-05 | 0.00 | .27E-06 | 180.000 | .36E-05 | 90.000 |
| 162. | 2713.053 | -7.800 | .21E-05 | 0.00 | .25E-06 | 180.000 | .36E-05 | 90.000 |
| 163. | 2706.673 | -7.559 | .21E-05 | 0.00 | .23E-06 | 180.000 | .36E-05 | 90.000 |
| 164. | 2700.524 | -7.286 | .21E-05 | 0.00 | .21E-06 | 180.000 | .36E-05 | 90.000 |
| 165. | 2694.628 | -6.983 | .21E-05 | 0.00 | .20E-06 | 180.000 | .36E-05 | 90.000 |
| 166. | 2689.010 | -6.652 | .21E-05 | 0.00 | .18E-06 | 180.000 | .36E-05 | 90.000 |
| 167. | 2683.689 | -6.293 | .21E-05 | 0.00 | .17E-06 | 180.000 | .36E-05 | 90.000 |
| 168. | 2678.685 | -5.909 | .21E-05 | 0.00 | .15E-06 | 180.000 | .36E-05 | 90.000 |
| 169. | 2674.017 | -5.502 | .21E-05 | 0.00 | .14E-06 | 180.000 | .36E-05 | 90.000 |
| 170. | 2669.699 | -5.073 | .21E-05 | 0.00 | .12E-06 | 180.000 | .36E-05 | 90.000 |
| 171. | 2665.748 | -4.625 | .21E-05 | 0.00 | .11E-06 | 180.000 | .36E-05 | 90.000 |
| 172. | 2662.176 | -4.158 | .21E-05 | 0.00 | .95E-07 | 180.000 | .36E-05 | 90.000 |
| 173. | 2658.997 | -3.674 | .21E-05 | 0.00 | .82E-07 | 180.000 | .36E-05 | 90.000 |
| 174. | 2656.219 | -3.176 | .20E-05 | 0.00 | .70E-07 | 180.000 | .36E-05 | 90.000 |
| 175. | 2653.854 | -2.666 | .20E-05 | 0.00 | .58E-07 | 180.000 | .36E-05 | 90.000 |
| 176. | 2651.908 | -2.146 | .20E-05 | 0.00 | .46E-07 | 180.000 | .36E-05 | 90.000 |
| 177. | 2650.388 | -1.617 | .20E-05 | 0.00 | .34E-07 | 180.000 | .36E-05 | 90.000 |
| 178. | 2649.298 | -1.081 | .20E-05 | 0.00 | .23E-07 | 180.000 | .36E-05 | 90.000 |
| 179. | 2648.643 | -.542 | .20E-05 | 0.00 | .11E-07 | 180.000 | .36E-05 | 90.000 |
| 180. | 2648.424 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .36E-05 | 90.000 |

111-OUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1603.777 | 0.000 | .18E-05 | 0.00 | .20E-05 | -90.000 | .30E-05 | 90.000 | .609E+02 | -90.000 | 1603.777 | 0.000 | 0.00000 |
| 1. | 1604.079 | 1.234 | .18E-05 | 0.00 | .20E-05 | -88.213 | .30E-05 | 90.849 | .727E+02 | -110.012 | 1604.078 | 1.233 | 0.00000 |
| 2. | 1604.982 | 2.469 | .18E-05 | 0.00 | .20E-05 | -86.431 | .30E-05 | 91.692 | .878E+02 | -124.416 | 1604.981 | 2.468 | 0.00000 |
| 3. | 1606.482 | 3.666 | .18E-05 | 0.00 | .20E-05 | -84.657 | .38E-05 | 92.527 | .108E+03 | -133.068 | 1606.481 | 3.666 | 0.00000 |
| 4. | 1608.572 | 4.848 | .18E-05 | 0.00 | .20E-05 | -82.895 | .39E-05 | 93.349 | .132E+03 | -137.866 | 1608.571 | 4.847 | 0.00000 |
| 5. | 1611.241 | 5.996 | .18E-05 | 0.00 | .20E-05 | -81.151 | .39E-05 | 94.153 | .158E+03 | -140.311 | 1611.239 | 5.995 | 0.00000 |
| 6. | 1614.474 | 7.102 | .19E-05 | 0.00 | .20E-05 | -79.426 | .39E-05 | 94.935 | .185E+03 | -141.309 | 1614.472 | 7.101 | 0.00000 |
| 7. | 1618.253 | 8.159 | .19E-05 | 0.00 | .20E-05 | -77.726 | .39E-05 | 95.691 | .213E+03 | -141.385 | 1618.253 | 8.158 | 0.00000 |
| 8. | 1622.563 | 9.160 | .19E-05 | 0.00 | .20E-05 | -76.054 | .39E-05 | 96.419 | .242E+03 | -140.850 | 1622.563 | 9.158 | 0.00000 |
| 9. | 1627.381 | 10.098 | .19E-05 | 0.00 | .19E-05 | -74.413 | .39E-05 | 97.114 | .272E+03 | -139.920 | 1627.376 | 10.096 | 0.00000 |
| 10. | 1632.674 | 10.967 | .20E-05 | 0.00 | .19E-05 | -72.805 | .40E-05 | 97.775 | .303E+03 | -138.705 | 1632.668 | 10.965 | 0.00000 |
| 11. | 1638.414 | 11.760 | .20E-05 | 0.00 | .19E-05 | -71.235 | .40E-05 | 98.398 | .334E+03 | -137.301 | 1638.407 | 11.757 | 0.00000 |
| 12. | 1644.568 | 12.471 | .20E-05 | 0.00 | .19E-05 | -69.705 | .40E-05 | 98.981 | .366E+03 | -135.768 | 1644.559 | 12.468 | .00001 |
| 13. | 1651.097 | 13.094 | .21E-05 | 0.00 | .18E-05 | -68.217 | .41E-05 | 99.523 | .399E+03 | -134.153 | 1651.087 | 13.091 | .00001 |
| 14. | 1657.958 | 13.622 | .21E-05 | 0.00 | .18E-05 | -66.774 | .41E-05 | 100.022 | .433E+03 | -132.490 | 1657.946 | 13.619 | .00001 |
| 15. | 1665.105 | 14.048 | .21E-05 | 0.00 | .18E-05 | -65.378 | .41E-05 | 100.477 | .467E+03 | -130.805 | 1665.091 | 14.045 | .00001 |
| 16. | 1672.483 | 14.364 | .22E-05 | 0.00 | .17E-05 | -64.033 | .42E-05 | 100.889 | .502E+03 | -129.119 | 1672.467 | 14.360 | .00001 |
| 17. | 1680.034 | 14.560 | .22E-05 | 0.00 | .17E-05 | -62.741 | .42E-05 | 101.259 | .538E+03 | -127.452 | 1680.016 | 14.555 | .00001 |
| 18. | 1687.691 | 14.624 | .23E-05 | 0.00 | .16E-05 | -61.506 | .43E-05 | 101.578 | .574E+03 | -125.817 | 1687.670 | 14.619 | .00001 |
| 19. | 1695.380 | 14.545 | .23E-05 | 0.00 | .16E-05 | -60.330 | .43E-05 | 101.858 | .611E+03 | -124.230 | 1695.356 | 14.540 | .00001 |
| 20. | 1703.016 | 14.306 | .24E-05 | 0.00 | .15E-05 | -59.219 | .44E-05 | 102.095 | .648E+03 | -122.703 | 1702.989 | 14.300 | .00002 |
| 21. | 1710.506 | 13.889 | .24E-05 | 0.00 | .14E-05 | -58.177 | .44E-05 | 102.293 | .684E+03 | -121.251 | 1710.476 | 13.884 | .00002 |
| 22. | 1717.743 | 13.270 | .25E-05 | 0.00 | .13E-05 | -57.209 | .45E-05 | 102.453 | .721E+03 | -119.887 | 1717.710 | 13.270 | .00002 |
| 23. | 1724.612 | 12.444 | .25E-05 | 0.00 | .12E-05 | -56.324 | .46E-05 | 102.579 | .756E+03 | -118.625 | 1724.575 | 12.438 | .00002 |
| 24. | 1730.984 | 11.374 | .26E-05 | 0.00 | .11E-05 | -55.527 | .46E-05 | 102.674 | .789E+03 | -117.480 | 1730.943 | 11.368 | .00002 |
| 25. | 1736.720 | 10.049 | .26E-05 | 0.00 | .92E-06 | -54.830 | .47E-05 | 102.743 | .820E+03 | -116.470 | 1736.676 | 10.044 | .00003 |
| 26. | 1741.679 | 8.463 | .27E-05 | 0.00 | .70E-06 | -54.240 | .47E-05 | 102.790 | .847E+03 | -115.612 | 1741.632 | 8.457 | .00003 |
| 27. | 1745.720 | 6.622 | .27E-05 | 0.00 | .58E-06 | -53.758 | .48E-05 | 102.820 | .870E+03 | -114.921 | 1745.671 | 6.618 | .00003 |
| 28. | 1748.714 | 4.558 | .27E-05 | 0.00 | .40E-06 | -53.422 | .48E-05 | 102.838 | .887E+03 | -114.415 | 1748.662 | 4.555 | .00003 |
| 29. | 1750.557 | 2.325 | .28E-05 | 0.00 | .20E-06 | -53.212 | .48E-05 | 102.847 | .898E+03 | -114.106 | 1750.504 | 2.323 | .00003 |
| 30. | 1751.179 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .48E-05 | 102.850 | .901E+03 | -114.002 | 1751.125 | 0.000 | .00003 |
| 31. | 1750.557 | -2.325 | .28E-05 | 0.00 | .20E-06 | 126.788 | .48E-05 | 102.847 | .898E+03 | -114.106 | 1750.504 | -2.323 | .00003 |
| 32. | 1748.714 | -4.558 | .27E-05 | 0.00 | .40E-06 | 126.578 | .48E-05 | 102.838 | .887E+03 | -114.415 | 1748.662 | -4.555 | .00003 |
| 33. | 1745.720 | -6.622 | .27E-05 | 0.00 | .58E-06 | 126.232 | .48E-05 | 102.820 | .870E+03 | -114.921 | 1745.671 | -6.618 | .00003 |
| 34. | 1741.679 | -8.463 | .27E-05 | 0.00 | .70E-06 | 125.760 | .47E-05 | 102.790 | .847E+03 | -115.611 | 1741.632 | -8.457 | .00003 |
| 35. | 1736.720 | -10.049 | .26E-05 | 0.00 | .92E-06 | 125.170 | .47E-05 | 102.743 | .820E+03 | -116.470 | 1736.676 | -10.044 | .00003 |
| 36. | 1730.984 | -11.374 | .26E-05 | 0.00 | .11E-05 | 124.473 | .46E-05 | 102.674 | .789E+03 | -117.480 | 1730.943 | -11.368 | .00002 |
| 37. | 1724.612 | -12.444 | .25E-05 | 0.00 | .12E-05 | 123.676 | .46E-05 | 102.579 | .756E+03 | -118.624 | 1724.575 | -12.438 | .00002 |
| 38. | 1717.743 | -13.276 | .25E-05 | 0.00 | .13E-05 | 122.791 | .45E-05 | 102.453 | .721E+03 | -119.886 | 1717.710 | -13.270 | .00002 |
| 39. | 1710.506 | -13.889 | .24E-05 | 0.00 | .14E-05 | 121.823 | .44E-05 | 102.293 | .685E+03 | -121.251 | 1710.476 | -13.884 | .00002 |
| 40. | 1703.016 | -14.306 | .24E-05 | 0.00 | .15E-05 | 120.781 | .44E-05 | 102.095 | .648E+03 | -122.703 | 1702.989 | -14.300 | .00002 |
| 41. | 1695.380 | -14.545 | .23E-05 | 0.00 | .16E-05 | 119.670 | .43E-05 | 101.858 | .611E+03 | -124.230 | 1695.356 | -14.540 | .00001 |
| 42. | 1687.691 | -14.624 | .23E-05 | 0.00 | .15E-05 | 118.494 | .43E-05 | 101.578 | .575E+03 | -125.817 | 1687.670 | -14.619 | .00001 |
| 43. | 1680.034 | -14.560 | .22E-05 | 0.00 | .17E-05 | 117.259 | .42E-05 | 101.255 | .538E+03 | -127.452 | 1680.016 | -14.555 | .00001 |
| 44. | 1672.483 | -14.364 | .22E-05 | 0.00 | .17E-05 | 115.967 | .42E-05 | 100.889 | .503E+03 | -129.120 | 1672.467 | -14.360 | .00001 |
| 45. | 1665.105 | -14.048 | .21E-05 | 0.00 | .18E-05 | 114.622 | .41E-05 | 100.477 | .467E+03 | -130.806 | 1665.091 | -14.045 | .00001 |
| 46. | 1657.958 | -13.622 | .21E-05 | 0.00 | .18E-05 | 113.226 | .41E-05 | 100.022 | .433E+03 | -132.491 | 1657.946 | -13.619 | .00001 |
| 47. | 1651.097 | -13.094 | .21E-05 | 0.00 | .18E-05 | 111.783 | .41E-05 | 99.523 | .399E+03 | -134.155 | 1651.087 | -13.091 | .00001 |
| 48. | 1644.568 | -12.471 | .20E-05 | 0.00 | .19E-05 | 110.295 | .40E-05 | 98.981 | .366E+03 | -135.772 | 1644.559 | -12.468 | .00001 |
| 49. | 1638.414 | -11.760 | .20E-05 | 0.00 | .19E-05 | 108.765 | .40E-05 | 98.398 | .334E+03 | -137.305 | 1638.407 | -11.757 | 0.00000 |

111-CUT INDIUM ANTIMONIDE

| | WWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1632.674 | -10.967 | .20E-05 | 0.00 | .19E-05 | 107.195 | .40E-05 | 97.775 | .303E+03 | -138.712 | 1632.668 | -10.965 | 0.00000 |
| 51. | 1627.381 | -10.098 | .19E-05 | 0.00 | .19E-05 | 105.257 | .39E-05 | 97.114 | .272E+03 | -139.929 | 1627.376 | -10.096 | 0.00000 |
| 52. | 1622.506 | -9.100 | .19E-05 | 0.00 | .20E-05 | 103.346 | .39E-05 | 96.419 | .242E+03 | -140.808 | 1622.503 | -9.158 | 0.00000 |
| 53. | 1618.256 | -8.159 | .19E-05 | 0.00 | .20E-05 | 102.274 | .39E-05 | 95.891 | .213E+03 | -141.402 | 1618.253 | -8.158 | 0.00000 |
| 54. | 1614.474 | -7.102 | .19E-05 | 0.00 | .20E-05 | 100.573 | .39E-05 | 94.935 | .185E+03 | -141.332 | 1614.472 | -7.101 | 0.00000 |
| 55. | 1611.241 | -5.996 | .18E-05 | 0.00 | .20E-05 | 98.849 | .39E-05 | 94.153 | .158E+03 | -140.342 | 1611.239 | -5.995 | 0.00000 |
| 56. | 1608.572 | -4.848 | .18E-05 | 0.00 | .20E-05 | 97.105 | .39E-05 | 93.349 | .132E+03 | -137.915 | 1608.571 | -4.847 | 0.00000 |
| 57. | 1606.482 | -3.666 | .18E-05 | 0.00 | .20E-05 | 95.343 | .38E-05 | 92.527 | .108E+03 | -133.142 | 1606.481 | -3.666 | 0.00000 |
| 58. | 1604.982 | -2.459 | .18E-05 | 0.00 | .20E-05 | 93.559 | .38E-05 | 91.692 | .878E+02 | -124.530 | 1604.981 | -2.458 | 0.00000 |
| 59. | 1604.079 | -1.234 | .18E-05 | 0.00 | .20E-05 | 91.757 | .38E-05 | 90.849 | .727E+02 | -110.178 | 1604.078 | -1.233 | 0.00000 |
| 60. | 1603.777 | 0.000 | .18E-05 | 0.00 | .20E-05 | 90.000 | .38E-05 | 90.000 | .669E+02 | -90.000 | 1603.777 | 0.000 | 0.00000 |
| 61. | 1604.079 | 1.234 | .18E-05 | 0.00 | .20E-05 | 88.243 | .38E-05 | 89.151 | .726E+02 | -70.150 | 1604.078 | 1.233 | 0.00000 |
| 62. | 1604.982 | 2.459 | .18E-05 | 0.00 | .20E-05 | 86.431 | .38E-05 | 88.308 | .877E+02 | -55.091 | 1604.981 | 2.458 | 0.00000 |
| 63. | 1606.482 | 3.666 | .18E-05 | 0.00 | .20E-05 | 84.657 | .38E-05 | 87.473 | .108E+03 | -47.000 | 1606.481 | 3.666 | 0.00000 |
| 64. | 1608.572 | 4.848 | .18E-05 | 0.00 | .20E-05 | 82.895 | .39E-05 | 86.651 | .132E+03 | -42.178 | 1608.571 | 4.847 | 0.00000 |
| 65. | 1611.241 | 5.996 | .18E-05 | 0.00 | .20E-05 | 81.151 | .39E-05 | 85.847 | .158E+03 | -39.718 | 1611.239 | 5.995 | 0.00000 |
| 66. | 1614.474 | 7.102 | .19E-05 | 0.00 | .20E-05 | 79.426 | .39E-05 | 85.065 | .185E+03 | -38.711 | 1614.472 | 7.101 | 0.00000 |
| 67. | 1618.256 | 8.159 | .19E-05 | 0.00 | .20E-05 | 77.720 | .39E-05 | 84.309 | .213E+03 | -38.029 | 1618.253 | 8.158 | 0.00000 |
| 68. | 1622.506 | 9.100 | .19E-05 | 0.00 | .20E-05 | 76.054 | .39E-05 | 83.581 | .242E+03 | -39.154 | 1622.503 | 9.158 | 0.00000 |
| 69. | 1627.381 | 10.098 | .19E-05 | 0.00 | .19E-05 | 74.413 | .39E-05 | 82.886 | .272E+03 | -40.088 | 1627.376 | 10.096 | 0.00000 |
| 70. | 1632.674 | 10.967 | .20E-05 | 0.00 | .19E-05 | 72.805 | .40E-05 | 82.225 | .303E+03 | -41.300 | 1632.668 | 10.965 | 0.00000 |
| 71. | 1638.414 | 11.760 | .20E-05 | 0.00 | .19E-05 | 71.235 | .40E-05 | 81.602 | .334E+03 | -42.703 | 1638.407 | 11.757 | 0.00000 |
| 72. | 1644.567 | 12.471 | .20E-05 | 0.00 | .19E-05 | 69.710 | .40E-05 | 81.019 | .366E+03 | -44.235 | 1644.559 | 12.468 | 0.00000 |
| 73. | 1651.096 | 13.094 | .21E-05 | 0.00 | .19E-05 | 68.217 | .41E-05 | 80.477 | .399E+03 | -45.849 | 1651.087 | 13.091 | .00001 |
| 74. | 1657.958 | 13.622 | .21E-05 | 0.00 | .18E-05 | 66.774 | .41E-05 | 79.978 | .433E+03 | -47.511 | 1657.946 | 13.619 | .00001 |
| 75. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -99.999 | 1605.091 | 14.045 | .99999 |
| 76. | 1672.483 | 14.304 | .22E-05 | 0.00 | .17E-05 | 64.033 | .42E-05 | 79.111 | .502E+03 | -50.881 | 1672.467 | 14.360 | .00001 |
| 77. | 1680.034 | 14.560 | .22E-05 | 0.00 | .17E-05 | 62.741 | .42E-05 | 78.745 | .538E+03 | -52.548 | 1680.016 | 14.555 | .00001 |
| 78. | 1687.691 | 14.624 | .23E-05 | 0.00 | .16E-05 | 61.506 | .43E-05 | 78.422 | .574E+03 | -54.183 | 1687.670 | 14.619 | .00001 |
| 79. | 1695.380 | 14.545 | .23E-05 | 0.00 | .16E-05 | 60.330 | .43E-05 | 78.143 | .611E+03 | -55.770 | 1695.356 | 14.540 | .00001 |
| 80. | 1703.016 | 14.306 | .24E-05 | 0.00 | .15E-05 | 59.219 | .44E-05 | 77.905 | .648E+03 | -57.296 | 1702.989 | 14.300 | .00002 |
| 81. | 1710.506 | 13.889 | .24E-05 | 0.00 | .14E-05 | 58.177 | .44E-05 | 77.707 | .684E+03 | -58.748 | 1710.475 | 13.884 | .00002 |
| 82. | 1717.743 | 13.276 | .25E-05 | 0.00 | .13E-05 | 57.209 | .45E-05 | 77.547 | .721E+03 | -60.113 | 1717.710 | 13.270 | .00002 |
| 83. | 1724.612 | 12.444 | .25E-05 | 0.00 | .12E-05 | 56.324 | .46E-05 | 77.421 | .756E+03 | -61.375 | 1724.575 | 12.438 | .00002 |
| 84. | 1730.984 | 11.374 | .26E-05 | 0.00 | .11E-05 | 55.527 | .46E-05 | 77.326 | .789E+03 | -62.519 | 1730.943 | 11.368 | .00002 |
| 85. | 1736.720 | 10.049 | .26E-05 | 0.00 | .92E-06 | 54.830 | .47E-05 | 77.257 | .820E+03 | -63.529 | 1736.676 | 10.044 | .00003 |
| 86. | 1741.679 | 8.463 | .27E-05 | 0.00 | .76E-06 | 54.240 | .47E-05 | 77.210 | .847E+03 | -64.387 | 1741.632 | 8.457 | .00003 |
| 87. | 1745.720 | 6.622 | .27E-05 | 0.00 | .58E-06 | 53.760 | .48E-05 | 77.180 | .870E+03 | -65.077 | 1745.670 | 6.618 | .00003 |
| 88. | 1748.714 | 4.558 | .27E-05 | 0.00 | .40E-06 | 53.422 | .48E-05 | 77.162 | .887E+03 | -65.583 | 1748.662 | 4.555 | .00003 |
| 89. | 1750.557 | 2.325 | .28E-05 | 0.00 | .20E-06 | 53.212 | .48E-05 | 77.155 | .898E+03 | -65.893 | 1750.504 | 2.323 | .00003 |
| 90. | 1751.179 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .48E-05 | 77.150 | .901E+03 | -65.997 | 1751.125 | 0.000 | .00003 |
| 91. | 1750.557 | -2.325 | .28E-05 | 0.00 | .20E-06 | -126.788 | .48E-05 | 77.153 | .898E+03 | -65.893 | 1750.504 | -2.323 | .00003 |
| 92. | 1748.714 | -4.558 | .27E-05 | 0.00 | .40E-06 | -126.578 | .48E-05 | 77.162 | .887E+03 | -65.583 | 1748.662 | -4.555 | .00003 |
| 93. | 1745.720 | -6.622 | .27E-05 | 0.00 | .58E-06 | -126.232 | .48E-05 | 77.180 | .870E+03 | -65.077 | 1745.670 | -6.618 | .00003 |
| 94. | 1741.679 | -8.463 | .27E-05 | 0.00 | .76E-06 | -125.750 | .47E-05 | 77.210 | .847E+03 | -64.387 | 1741.632 | -8.457 | .00003 |
| 95. | 1736.720 | -10.049 | .26E-05 | 0.00 | .92E-06 | -125.170 | .47E-05 | 77.257 | .820E+03 | -63.529 | 1736.676 | -10.044 | .00003 |
| 96. | 1730.984 | -11.374 | .26E-05 | 0.00 | .11E-05 | -124.473 | .46E-05 | 77.326 | .789E+03 | -62.519 | 1730.943 | -11.368 | .00002 |
| 97. | 1724.612 | -12.444 | .25E-05 | 0.00 | .12E-05 | -123.676 | .46E-05 | 77.421 | .756E+03 | -61.375 | 1724.575 | -12.438 | .00002 |
| 98. | 1717.743 | -13.276 | .25E-05 | 0.00 | .13E-05 | -122.791 | .45E-05 | 77.547 | .721E+03 | -60.113 | 1717.710 | -13.270 | .00002 |
| 99. | 1710.506 | -13.889 | .24E-05 | 0.00 | .14E-05 | -121.823 | .44E-05 | 77.707 | .684E+03 | -58.748 | 1710.475 | -13.884 | .00002 |

111-CUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1703.016 | -14.306 | .24E-05 | 0.00 | .15E-05 | -120.781 | .44E-05 | 77.905 | .648E+03 | -57.296 | 1702.989 | -14.300 | .00002 |
| 101. | 1695.380 | -14.545 | .23E-05 | 0.00 | .16E-05 | -119.670 | .43E-05 | 78.143 | .611E+03 | -55.770 | 1695.356 | -14.540 | .00001 |
| 102. | 1687.691 | -14.624 | .23E-05 | 0.00 | .16E-05 | -118.494 | .43E-05 | 78.422 | .574E+03 | -54.183 | 1687.670 | -14.619 | .00001 |
| 103. | 1680.034 | -14.560 | .22E-05 | 0.00 | .17E-05 | -117.259 | .42E-05 | 78.745 | .536E+03 | -52.548 | 1680.016 | -14.555 | .00001 |
| 104. | 1672.483 | -14.364 | .22E-05 | 0.00 | .17E-05 | -115.967 | .42E-05 | 79.111 | .502E+03 | -50.881 | 1672.467 | -14.360 | .00001 |
| 105. | 1665.105 | -14.048 | .21E-05 | 0.00 | .18E-05 | -114.622 | .41E-05 | 79.523 | .467E+03 | -49.196 | 1665.091 | -14.045 | .00001 |
| 106. | 1657.958 | -13.622 | .21E-05 | 0.00 | .18E-05 | -113.226 | .41E-05 | 79.978 | .433E+03 | -47.511 | 1657.946 | -13.619 | .00001 |
| 107. | 1651.096 | -13.094 | .21E-05 | 0.00 | .18E-05 | -111.783 | .41E-05 | 80.477 | .399E+03 | -45.849 | 1651.087 | -13.091 | .00001 |
| 108. | 1644.507 | -12.471 | .20E-05 | 0.00 | .19E-05 | -110.295 | .40E-05 | 81.019 | .366E+03 | -44.235 | 1644.509 | -12.468 | 0.00000 |
| 109. | 1638.414 | -11.760 | .20E-05 | 0.00 | .19E-05 | -108.765 | .40E-05 | 81.602 | .334E+03 | -42.703 | 1638.407 | -11.757 | 0.00000 |
| 110. | 1632.874 | -10.967 | .20E-05 | 0.00 | .19E-05 | -107.195 | .40E-05 | 82.225 | .303E+03 | -41.300 | 1632.868 | -10.965 | 0.00000 |
| 111. | 1627.381 | -10.098 | .19E-05 | 0.00 | .19E-05 | -105.587 | .39E-05 | 82.886 | .272E+03 | -40.088 | 1627.376 | -10.096 | 0.00000 |
| 112. | 1622.566 | -9.160 | .19E-05 | 0.00 | .20E-05 | -103.946 | .39E-05 | 83.581 | .242E+03 | -39.154 | 1622.563 | -9.158 | 0.00000 |
| 113. | 1618.256 | -8.159 | .19E-05 | 0.00 | .20E-05 | -102.274 | .39E-05 | 84.309 | .213E+03 | -38.629 | 1618.253 | -8.158 | 0.00000 |
| 114. | 1614.474 | -7.102 | .19E-05 | 0.00 | .20E-05 | -100.574 | .39E-05 | 85.065 | .185E+03 | -38.711 | 1614.472 | -7.101 | 0.00000 |
| 115. | 1611.241 | -5.996 | .18E-05 | 0.00 | .20E-05 | -98.849 | .39E-05 | 85.847 | .158E+03 | -39.718 | 1611.239 | -5.995 | 0.00000 |
| 116. | 1608.572 | -4.848 | .18E-05 | 0.00 | .20E-05 | -97.105 | .39E-05 | 86.651 | .132E+03 | -42.178 | 1608.571 | -4.847 | 0.00000 |
| 117. | 1606.482 | -3.666 | .18E-05 | 0.00 | .20E-05 | -95.343 | .38E-05 | 87.473 | .108E+03 | -47.000 | 1606.481 | -3.666 | 0.00000 |
| 118. | 1604.982 | -2.459 | .18E-05 | 0.00 | .20E-05 | -93.569 | .38E-05 | 88.308 | .877E+02 | -55.691 | 1604.981 | -2.458 | 0.00000 |
| 119. | 1604.079 | -1.234 | .18E-05 | 0.00 | .20E-05 | -91.787 | .38E-05 | 89.151 | .726E+02 | -70.150 | 1604.078 | -1.233 | 0.00000 |
| 120. | 1603.777 | 0.000 | .18E-05 | 0.00 | .20E-05 | -90.000 | .38E-05 | 90.000 | .669E+02 | -90.000 | 1603.777 | 0.000 | 0.00000 |
| 121. | 1604.079 | 1.234 | .18E-05 | 0.00 | .20E-05 | -88.213 | .38E-05 | 90.849 | .727E+02 | -110.178 | 1604.078 | 1.233 | 0.00000 |
| 122. | 1604.982 | 2.459 | .18E-05 | 0.00 | .20E-05 | -86.431 | .38E-05 | 91.692 | .878E+02 | -124.530 | 1604.981 | 2.458 | 0.00000 |
| 123. | 1606.482 | 3.666 | .18E-05 | 0.00 | .20E-05 | -84.657 | .38E-05 | 92.527 | .108E+03 | -133.142 | 9999.999 | 9.999 | .99999 |
| 124. | 1608.572 | 4.848 | .18E-05 | 0.00 | .20E-05 | -82.895 | .39E-05 | 93.349 | .132E+03 | -137.915 | 9999.999 | 9.999 | .99999 |
| 125. | 1611.241 | 5.996 | .18E-05 | 0.00 | .20E-05 | -81.151 | .39E-05 | 94.153 | .158E+03 | -140.345 | 9999.999 | 9.999 | .99999 |
| 126. | 1614.474 | 7.102 | .19E-05 | 0.00 | .20E-05 | -79.426 | .39E-05 | 94.935 | .185E+03 | -141.332 | 9999.999 | 9.999 | .99999 |
| 127. | 1618.256 | 8.159 | .19E-05 | 0.00 | .20E-05 | -77.726 | .39E-05 | 95.691 | .213E+03 | -141.402 | 9999.999 | 9.999 | .99999 |
| 128. | 1622.566 | 9.160 | .19E-05 | 0.00 | .20E-05 | -76.054 | .39E-05 | 96.419 | .242E+03 | -140.868 | 9999.999 | 9.999 | .99999 |
| 129. | 1627.381 | 10.098 | .19E-05 | 0.00 | .19E-05 | -74.413 | .39E-05 | 97.114 | .272E+03 | -139.929 | 9999.999 | 9.999 | .99999 |
| 130. | 1632.674 | 10.967 | .20E-05 | 0.00 | .19E-05 | -72.805 | .40E-05 | 97.775 | .303E+03 | -138.712 | 9999.999 | 9.999 | .99999 |
| 131. | 1638.414 | 11.760 | .20E-05 | 0.00 | .19E-05 | -71.235 | .40E-05 | 98.398 | .334E+03 | -137.305 | 9999.999 | 9.999 | .99999 |
| 132. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -999.999 | 9999.999 | 9.999 | .99999 |
| 133. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -999.999 | 9999.999 | 9.999 | .99999 |
| 134. | 9999.999 | 99.999 | .99E-05 | 0.00 | .99E-05 | 99.999 | .99E-05 | 99.999 | .999E+03 | -999.999 | 9999.999 | 9.999 | .99999 |
| 135. | 1665.105 | 14.048 | .21E-05 | 0.00 | .18E-05 | -65.378 | .41E-05 | 100.477 | .467E+03 | -130.806 | 9999.999 | 9.999 | .99999 |
| 136. | 1672.483 | 14.364 | .22E-05 | 0.00 | .17E-05 | -64.033 | .42E-05 | 100.889 | .503E+03 | -129.120 | 9999.999 | 9.999 | .99999 |
| 137. | 1680.034 | 14.560 | .22E-05 | 0.00 | .17E-05 | -62.741 | .42E-05 | 101.255 | .538E+03 | -127.452 | 9999.999 | 9.999 | .99999 |
| 138. | 1687.691 | 14.624 | .23E-05 | 0.00 | .16E-05 | -61.500 | .43E-05 | 101.570 | .575E+03 | -125.817 | 9999.999 | 9.999 | .99999 |
| 139. | 1695.380 | 14.545 | .23E-05 | 0.00 | .16E-05 | -60.330 | .43E-05 | 101.858 | .611E+03 | -124.230 | 9999.999 | 9.999 | .99999 |
| 140. | 1703.016 | 14.306 | .24E-05 | 0.00 | .15E-05 | -59.219 | .44E-05 | 102.095 | .648E+03 | -122.703 | 9999.999 | 9.999 | .99999 |
| 141. | 1710.506 | 13.889 | .24E-05 | 0.00 | .14E-05 | -58.177 | .44E-05 | 102.293 | .685E+03 | -121.251 | 9999.999 | 9.999 | .99999 |
| 142. | 1717.743 | 13.276 | .25E-05 | 0.00 | .13E-05 | -57.209 | .45E-05 | 102.453 | .721E+03 | -119.880 | 9999.999 | 9.999 | .99999 |
| 143. | 1724.612 | 12.444 | .25E-05 | 0.00 | .12E-05 | -56.324 | .46E-05 | 102.579 | .756E+03 | -118.624 | 9999.999 | 9.999 | .99999 |
| 144. | 1730.984 | 11.374 | .26E-05 | 0.00 | .11E-05 | -55.527 | .46E-05 | 102.674 | .789E+03 | -117.480 | 9999.999 | 9.999 | .99999 |
| 145. | 1736.720 | 10.049 | .26E-05 | 0.00 | .92E-06 | -54.830 | .47E-05 | 102.745 | .820E+03 | -116.470 | 9999.999 | 9.999 | .99999 |
| 146. | 1741.679 | 8.463 | .27E-05 | 0.00 | .76E-06 | -54.240 | .47E-05 | 102.790 | .847E+03 | -115.611 | 9999.999 | 9.999 | .99999 |
| 147. | 1745.720 | 6.622 | .27E-05 | 0.00 | .56E-06 | -53.750 | .48E-05 | 102.820 | .870E+03 | -114.921 | 9999.999 | 9.999 | .99999 |
| 148. | 1748.714 | 4.558 | .27E-05 | 0.00 | .40E-06 | -53.422 | .48E-05 | 102.838 | .887E+03 | -114.415 | 9999.999 | 9.999 | .99999 |
| 149. | 1750.557 | 2.325 | .28E-05 | 0.00 | .20E-06 | -53.212 | .48E-05 | 102.847 | .898E+03 | -114.100 | 9999.999 | 9.999 | .99999 |

111-CUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1751.179 | 0.000 | .28E-05 | 0.00 | 0. | 0.000 | .48E-05 | 102.850 | .901E+03 | -114.002 | 9999.999 | 9.999 | .99999 |
| 151. | 1750.557 | -2.325 | .28E-05 | 0.00 | .20E-06 | 126.736 | .48E-05 | 102.847 | .898E+03 | -114.106 | 9999.999 | 9.999 | .99999 |
| 152. | 1748.714 | -4.558 | .27E-05 | 0.00 | .40E-06 | 126.576 | .48E-05 | 102.838 | .887E+03 | -114.415 | 9999.999 | 9.999 | .99999 |
| 153. | 1745.720 | -6.622 | .27E-05 | 0.00 | .58E-06 | 126.232 | .48E-05 | 102.820 | .870E+03 | -114.921 | 9999.999 | 9.999 | .99999 |
| 154. | 1741.679 | -8.463 | .27E-05 | 0.00 | .75E-06 | 125.730 | .47E-05 | 102.790 | .847E+03 | -115.612 | 9999.999 | 9.999 | .99999 |
| 155. | 1736.720 | -10.049 | .26E-05 | 0.00 | .92E-06 | 125.170 | .47E-05 | 102.743 | .820E+03 | -116.470 | 9999.999 | 9.999 | .99999 |
| 156. | 1730.984 | -11.374 | .26E-05 | 0.00 | .11E-05 | 124.473 | .46E-05 | 102.674 | .789E+03 | -117.480 | 9999.999 | 9.999 | .99999 |
| 157. | 1724.612 | -12.444 | .25E-05 | 0.00 | .12E-05 | 123.676 | .46E-05 | 102.579 | .756E+03 | -118.625 | 9999.999 | 9.999 | .99999 |
| 158. | 1717.743 | -13.276 | .25E-05 | 0.00 | .13E-05 | 122.791 | .45E-05 | 102.453 | .721E+03 | -119.887 | 9999.999 | 9.999 | .99999 |
| 159. | 1710.506 | -13.889 | .24E-05 | 0.00 | .14E-05 | 121.823 | .44E-05 | 102.293 | .684E+03 | -121.251 | 9999.999 | 9.999 | .99999 |
| 160. | 1703.016 | -14.306 | .24E-05 | 0.00 | .15E-05 | 120.781 | .44E-05 | 102.095 | .648E+03 | -122.703 | 9999.999 | 9.999 | .99999 |
| 161. | 1695.380 | -14.545 | .23E-05 | 0.00 | .16E-05 | 119.670 | .43E-05 | 101.858 | .611E+03 | -124.230 | 9999.999 | 9.999 | .99999 |
| 162. | 1687.691 | -14.624 | .23E-05 | 0.00 | .16E-05 | 118.494 | .43E-05 | 101.578 | .574E+03 | -125.817 | 9999.999 | 9.999 | .99999 |
| 163. | 1680.034 | -14.560 | .22E-05 | 0.00 | .17E-05 | 117.259 | .42E-05 | 101.255 | .538E+03 | -127.452 | 9999.999 | 9.999 | .99999 |
| 164. | 1672.483 | -14.364 | .22E-05 | 0.00 | .17E-05 | 115.967 | .42E-05 | 100.889 | .502E+03 | -129.119 | 9999.999 | 9.999 | .99999 |
| 165. | 1665.105 | -14.048 | .21E-05 | 0.00 | .18E-05 | 114.622 | .41E-05 | 100.477 | .467E+03 | -130.805 | 9999.999 | 9.999 | .99999 |
| 166. | 1657.958 | -13.622 | .21E-05 | 0.00 | .18E-05 | 113.226 | .41E-05 | 100.022 | .433E+03 | -132.490 | 9999.999 | 9.999 | .99999 |
| 167. | 1651.097 | -13.094 | .21E-05 | 0.00 | .18E-05 | 111.783 | .41E-05 | 99.523 | .399E+03 | -134.153 | 9999.999 | 9.999 | .99999 |
| 168. | 1644.568 | -12.471 | .20E-05 | 0.00 | .19E-05 | 110.295 | .40E-05 | 98.981 | .366E+03 | -135.788 | 9999.999 | 9.999 | .99999 |
| 169. | 1638.414 | -11.760 | .20E-05 | 0.00 | .19E-05 | 108.765 | .40E-05 | 98.398 | .334E+03 | -137.381 | 9999.999 | 9.999 | .99999 |
| 170. | 1632.674 | -10.967 | .20E-05 | 0.00 | .19E-05 | 107.195 | .40E-05 | 97.775 | .303E+03 | -138.705 | 9999.999 | 9.999 | .99999 |
| 171. | 1627.381 | -10.098 | .19E-05 | 0.00 | .19E-05 | 105.587 | .39E-05 | 97.114 | .272E+03 | -139.920 | 9999.999 | 9.999 | .99999 |
| 172. | 1622.566 | -9.160 | .19E-05 | 0.00 | .20E-05 | 103.946 | .39E-05 | 96.419 | .242E+03 | -140.856 | 9999.999 | 9.999 | .99999 |
| 173. | 1618.256 | -8.159 | .19E-05 | 0.00 | .20E-05 | 102.274 | .39E-05 | 95.691 | .213E+03 | -141.385 | 9999.999 | 9.999 | .99999 |
| 174. | 1614.474 | -7.102 | .19E-05 | 0.00 | .20E-05 | 100.574 | .39E-05 | 94.935 | .185E+03 | -141.309 | 9999.999 | 9.999 | .99999 |
| 175. | 1611.241 | -5.996 | .18E-05 | 0.00 | .20E-05 | 98.849 | .39E-05 | 94.153 | .158E+03 | -140.311 | 9999.999 | 9.999 | .99999 |
| 176. | 1608.572 | -4.848 | .18E-05 | 0.00 | .20E-05 | 97.105 | .39E-05 | 93.349 | .132E+03 | -137.866 | 9999.999 | 9.999 | .99999 |
| 177. | 1606.482 | -3.666 | .18E-05 | 0.00 | .20E-05 | 95.343 | .38E-05 | 92.527 | .108E+03 | -133.068 | 9999.999 | 9.999 | .99999 |
| 178. | 1604.982 | -2.459 | .18E-05 | 0.00 | .20E-05 | 93.569 | .38E-05 | 91.692 | .878E+02 | -124.416 | 9999.999 | 9.999 | .99999 |
| 179. | 1604.079 | -1.234 | .18E-05 | 0.00 | .20E-05 | 91.787 | .38E-05 | 90.849 | .727E+02 | -110.012 | 9999.999 | 9.999 | .99999 |
| 180. | 1603.777 | 0.000 | .18E-05 | 0.00 | .20E-05 | 90.000 | .38E-05 | 90.000 | .669E+02 | -90.000 | 9999.999 | 9.999 | .99999 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1588.238 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .48E-05 | 90.000 | 0. | 0.000 | 1588.238 | 0.000 | 0.00000 |
| 1. | 1588.444 | .852 | .23E-05 | 0.00 | .28E-07 | 0.000 | .48E-05 | 90.000 | .434E+02 | 180.000 | 1588.444 | .852 | 0.00000 |
| 2. | 1589.002 | 1.701 | .23E-05 | 0.00 | .56E-07 | 0.000 | .48E-05 | 90.000 | .867E+02 | 180.000 | 1589.061 | 1.700 | 0.00000 |
| 3. | 1590.090 | 2.541 | .23E-05 | 0.00 | .85E-07 | 0.000 | .48E-05 | 90.000 | .130E+03 | 180.000 | 1590.089 | 2.540 | 0.00000 |
| 4. | 1591.524 | 3.370 | .23E-05 | 0.00 | .11E-06 | 0.000 | .48E-05 | 90.000 | .173E+03 | 180.000 | 1591.522 | 3.368 | 0.00000 |
| 5. | 1593.359 | 4.183 | .23E-05 | 0.00 | .14E-06 | 0.000 | .48E-05 | 90.000 | .216E+03 | 180.000 | 1593.356 | 4.181 | 0.00000 |
| 6. | 1595.589 | 4.977 | .23E-05 | 0.00 | .17E-06 | 0.000 | .48E-05 | 90.000 | .258E+03 | 180.000 | 1595.585 | 4.974 | 0.00000 |
| 7. | 1598.206 | 5.748 | .23E-05 | 0.00 | .20E-06 | 0.000 | .48E-05 | 90.000 | .301E+03 | 180.000 | 1598.201 | 5.745 | 0.00000 |
| 8. | 1601.201 | 6.493 | .23E-05 | 0.00 | .24E-06 | 0.000 | .48E-05 | 90.000 | .342E+03 | 180.000 | 1601.194 | 6.490 | 0.00000 |
| 9. | 1604.564 | 7.209 | .24E-05 | 0.00 | .27E-06 | 0.000 | .48E-05 | 90.000 | .384E+03 | 180.000 | 1604.555 | 7.205 | .00001 |
| 10. | 1608.282 | 7.892 | .24E-05 | 0.00 | .30E-06 | 0.000 | .48E-05 | 90.000 | .424E+03 | 180.000 | 1608.271 | 7.888 | .00001 |
| 11. | 1612.341 | 8.540 | .24E-05 | 0.00 | .34E-06 | 0.000 | .48E-05 | 90.000 | .465E+03 | 180.000 | 1612.328 | 8.536 | .00001 |
| 12. | 1616.728 | 9.150 | .24E-05 | 0.00 | .37E-06 | 0.000 | .49E-05 | 90.000 | .504E+03 | 180.000 | 1616.712 | 9.145 | .00001 |
| 13. | 1621.425 | 9.718 | .24E-05 | 0.00 | .41E-06 | 0.000 | .49E-05 | 90.000 | .543E+03 | 180.000 | 1621.407 | 9.713 | .00001 |
| 14. | 1626.415 | 10.244 | .24E-05 | 0.00 | .45E-06 | 0.000 | .49E-05 | 90.000 | .581E+03 | 180.000 | 1626.394 | 10.238 | .00001 |
| 15. | 1631.678 | 10.723 | .24E-05 | 0.00 | .49E-06 | 0.000 | .49E-05 | 90.000 | .618E+03 | 180.000 | 1631.655 | 10.717 | .00001 |
| 16. | 1637.193 | 11.153 | .24E-05 | 0.00 | .54E-06 | 0.000 | .49E-05 | 90.000 | .654E+03 | 180.000 | 1637.167 | 11.148 | .00002 |
| 17. | 1642.937 | 11.532 | .24E-05 | 0.00 | .58E-06 | 0.000 | .49E-05 | 90.000 | .688E+03 | 180.000 | 1642.908 | 11.527 | .00002 |
| 18. | 1648.880 | 11.857 | .24E-05 | 0.00 | .63E-06 | 0.000 | .49E-05 | 90.000 | .722E+03 | 180.000 | 1648.854 | 11.852 | .00002 |
| 19. | 1655.012 | 12.125 | .25E-05 | 0.00 | .68E-06 | 0.000 | .49E-05 | 90.000 | .754E+03 | 180.000 | 1654.977 | 12.119 | .00002 |
| 20. | 1661.287 | 12.332 | .25E-05 | 0.00 | .73E-06 | 0.000 | .50E-05 | 90.000 | .785E+03 | 180.000 | 1661.249 | 12.327 | .00002 |
| 21. | 1667.679 | 12.475 | .25E-05 | 0.00 | .79E-06 | 0.000 | .50E-05 | 90.000 | .814E+03 | 180.000 | 1667.638 | 12.470 | .00002 |
| 22. | 1674.134 | 12.549 | .25E-05 | 0.00 | .85E-06 | 0.000 | .50E-05 | 90.000 | .841E+03 | 180.000 | 1674.110 | 12.544 | .00003 |
| 23. | 1680.674 | 12.550 | .25E-05 | 0.00 | .91E-06 | 0.000 | .50E-05 | 90.000 | .867E+03 | 180.000 | 1680.627 | 12.545 | .00003 |
| 24. | 1687.139 | 12.470 | .25E-05 | 0.00 | .98E-06 | 0.000 | .50E-05 | 90.000 | .890E+03 | 180.000 | 1687.149 | 12.465 | .00003 |
| 25. | 1693.683 | 12.303 | .25E-05 | 0.00 | .10E-05 | 0.000 | .50E-05 | 90.000 | .911E+03 | 180.000 | 1693.630 | 12.299 | .00003 |
| 26. | 1700.075 | 12.041 | .26E-05 | 0.00 | .11E-05 | 0.000 | .50E-05 | 90.000 | .929E+03 | 180.000 | 1700.020 | 12.037 | .00003 |
| 27. | 1706.321 | 11.672 | .26E-05 | 0.00 | .12E-05 | 0.000 | .50E-05 | 90.000 | .944E+03 | 180.000 | 1706.264 | 11.669 | .00003 |
| 28. | 1712.358 | 11.186 | .26E-05 | 0.00 | .13E-05 | 0.000 | .50E-05 | 90.000 | .956E+03 | 180.000 | 1712.299 | 11.183 | .00003 |
| 29. | 1718.117 | 10.567 | .26E-05 | 0.00 | .13E-05 | 0.000 | .50E-05 | 90.000 | .964E+03 | 180.000 | 1718.057 | 10.565 | .00003 |
| 30. | 1723.519 | 9.799 | .26E-05 | 0.00 | .14E-05 | 0.000 | .50E-05 | 90.000 | .969E+03 | 180.000 | 1723.456 | 9.799 | .00004 |
| 31. | 1728.477 | 8.867 | .26E-05 | 0.00 | .15E-05 | 0.000 | .50E-05 | 90.000 | .969E+03 | 180.000 | 1728.416 | 8.868 | .00004 |
| 32. | 1732.899 | 7.755 | .26E-05 | 0.00 | .15E-05 | 0.000 | .50E-05 | 90.000 | .964E+03 | -180.000 | 1732.838 | 7.757 | .00004 |
| 33. | 1736.681 | 6.454 | .27E-05 | 0.00 | .15E-05 | 0.000 | .50E-05 | 90.000 | .954E+03 | -180.000 | 1736.622 | 6.456 | .00003 |
| 34. | 1739.722 | 4.963 | .26E-05 | 0.00 | .16E-05 | 0.000 | .49E-05 | 90.000 | .939E+03 | -180.000 | 1739.664 | 4.967 | .00003 |
| 35. | 1741.925 | 3.307 | .26E-05 | 0.00 | .15E-05 | 0.000 | .49E-05 | 90.000 | .918E+03 | 180.000 | 1741.870 | 3.312 | .00003 |
| 36. | 1743.215 | 1.537 | .26E-05 | 0.00 | .15E-05 | 0.000 | .48E-05 | 90.000 | .893E+03 | -180.000 | 1743.163 | 1.543 | .00003 |
| 37. | 1743.553 | -.258 | .26E-05 | 0.00 | .14E-05 | 0.000 | .47E-05 | 90.000 | .865E+03 | -180.000 | 1743.504 | -.252 | .00003 |
| 38. | 1742.957 | -1.959 | .25E-05 | 0.00 | .12E-05 | 0.000 | .46E-05 | 90.000 | .836E+03 | 180.000 | 1742.912 | -1.953 | .00003 |
| 39. | 1741.511 | -3.438 | .25E-05 | 0.00 | .10E-05 | 0.000 | .44E-05 | 90.000 | .808E+03 | -180.000 | 1741.469 | -3.433 | .00002 |
| 40. | 1739.365 | -4.584 | .24E-05 | 0.00 | .82E-06 | 0.000 | .43E-05 | 90.000 | .783E+03 | 180.000 | 1739.325 | -4.579 | .00002 |
| 41. | 1736.716 | -5.326 | .23E-05 | 0.00 | .59E-06 | 0.000 | .42E-05 | 90.000 | .763E+03 | -180.000 | 1736.678 | -5.323 | .00002 |
| 42. | 1733.788 | -5.647 | .22E-05 | 0.00 | .36E-06 | 0.000 | .41E-05 | 90.000 | .750E+03 | -180.000 | 1733.751 | -5.645 | .00002 |
| 43. | 1730.803 | -5.567 | .21E-05 | 0.00 | .13E-06 | 0.000 | .40E-05 | 90.000 | .743E+03 | -180.000 | 1730.767 | -5.567 | .00002 |
| 44. | 1727.962 | -5.134 | .21E-05 | 0.00 | .66E-07 | -180.000 | .39E-05 | 90.000 | .743E+03 | 180.000 | 1727.926 | -5.134 | .00002 |
| 45. | 1725.435 | -4.406 | .20E-05 | 0.00 | .24E-06 | -180.000 | .38E-05 | 90.000 | .747E+03 | 180.000 | 1725.399 | -4.407 | .00002 |
| 46. | 1723.362 | -3.442 | .20E-05 | 0.00 | .38E-06 | -180.000 | .37E-05 | 90.000 | .755E+03 | 180.000 | 1723.325 | -3.444 | .00002 |
| 47. | 1721.847 | -2.298 | .20E-05 | 0.00 | .49E-06 | -180.000 | .37E-05 | 90.000 | .766E+03 | -180.000 | 1721.809 | -2.301 | .00002 |
| 48. | 1720.971 | -1.024 | .19E-05 | 0.00 | .57E-06 | 180.000 | .37E-05 | 90.000 | .779E+03 | 180.000 | 1720.932 | -1.026 | .00002 |
| 49. | 1720.789 | .338 | .19E-05 | 0.00 | .62E-06 | -180.000 | .37E-05 | 90.000 | .792E+03 | -180.000 | 1720.748 | .335 | .00002 |

110-CUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1721.334 | 1.747 | .19E-05 | 0.00 | .65E-06 | -180.000 | .37E-05 | 90.000 | .805E+03 | -180.000 | 1721.292 | 1.745 | .00002 |
| 51. | 1722.625 | 3.171 | .20E-05 | 0.00 | .95E-06 | -180.000 | .37E-05 | 90.000 | .817E+03 | -180.000 | 1722.582 | 3.169 | .00002 |
| 52. | 1724.664 | 4.579 | .20E-05 | 0.00 | .82E-06 | -180.000 | .37E-05 | 90.000 | .826E+03 | -180.000 | 1724.619 | 4.576 | .00003 |
| 53. | 1727.440 | 5.944 | .20E-05 | 0.00 | .58E-06 | -180.000 | .37E-05 | 90.000 | .838E+03 | -180.000 | 1727.395 | 5.942 | .00003 |
| 54. | 1730.933 | 7.244 | .20E-05 | 0.00 | .51E-06 | -180.000 | .38E-05 | 90.000 | .845E+03 | 180.000 | 1730.886 | 7.243 | .00003 |
| 55. | 1735.108 | 8.460 | .21E-05 | 0.00 | .43E-06 | -180.000 | .38E-05 | 90.000 | .851E+03 | -180.000 | 1735.061 | 8.459 | .00003 |
| 56. | 1739.926 | 9.576 | .22E-05 | 0.00 | .33E-06 | -180.000 | .39E-05 | 90.000 | .854E+03 | -180.000 | 1739.878 | 9.576 | .00003 |
| 57. | 1745.337 | 10.581 | .23E-05 | 0.00 | .22E-06 | -180.000 | .39E-05 | 90.000 | .856E+03 | -180.000 | 1745.289 | 10.580 | .00003 |
| 58. | 1751.287 | 11.465 | .23E-05 | 0.00 | .10E-06 | 180.000 | .39E-05 | 90.000 | .855E+03 | 180.000 | 1751.238 | 11.465 | .00003 |
| 59. | 1757.715 | 12.224 | .24E-05 | 0.00 | .26E-07 | 0.000 | .40E-05 | 90.000 | .854E+03 | -180.000 | 1757.667 | 12.225 | .00003 |
| 60. | 1764.558 | 12.856 | .25E-05 | 0.00 | .15E-06 | 0.000 | .41E-05 | 90.000 | .851E+03 | -180.000 | 1764.510 | 12.857 | .00003 |
| 61. | 1771.751 | 13.362 | .26E-05 | 0.00 | .28E-06 | 0.000 | .41E-05 | 90.000 | .847E+03 | -180.000 | 1771.703 | 13.363 | .00003 |
| 62. | 1779.227 | 13.745 | .27E-05 | 0.00 | .41E-06 | 0.000 | .42E-05 | 90.000 | .843E+03 | 180.000 | 1779.179 | 13.746 | .00003 |
| 63. | 1786.920 | 14.009 | .28E-05 | 0.00 | .52E-06 | 0.000 | .43E-05 | 90.000 | .839E+03 | -180.000 | 1786.873 | 14.010 | .00003 |
| 64. | 1794.768 | 14.161 | .30E-05 | 0.00 | .63E-06 | 0.000 | .43E-05 | 90.000 | .836E+03 | 180.000 | 1794.721 | 14.161 | .00003 |
| 65. | 1802.707 | 14.207 | .31E-05 | 0.00 | .73E-06 | 0.000 | .44E-05 | 90.000 | .833E+03 | -180.000 | 1802.660 | 14.208 | .00003 |
| 66. | 1810.680 | 14.156 | .32E-05 | 0.00 | .82E-06 | 0.000 | .44E-05 | 90.000 | .831E+03 | 180.000 | 1810.633 | 14.156 | .00003 |
| 67. | 1818.631 | 14.015 | .33E-05 | 0.00 | .89E-06 | 0.000 | .45E-05 | 90.000 | .829E+03 | -180.000 | 1818.584 | 14.016 | .00003 |
| 68. | 1826.510 | 13.793 | .34E-05 | 0.00 | .96E-06 | 0.000 | .46E-05 | 90.000 | .829E+03 | -180.000 | 1826.463 | 13.793 | .00003 |
| 69. | 1834.269 | 13.498 | .35E-05 | 0.00 | .10E-05 | 0.000 | .46E-05 | 90.000 | .830E+03 | -180.000 | 1834.221 | 13.497 | .00003 |
| 70. | 1841.805 | 13.136 | .36E-05 | 0.00 | .10E-05 | 0.000 | .47E-05 | 90.000 | .832E+03 | -180.000 | 1841.817 | 13.136 | .00003 |
| 71. | 1849.201 | 12.716 | .37E-05 | 0.00 | .11E-05 | 0.000 | .48E-05 | 90.000 | .834E+03 | -180.000 | 1849.213 | 12.716 | .00003 |
| 72. | 1856.421 | 12.245 | .37E-05 | 0.00 | .11E-05 | 0.000 | .48E-05 | 90.000 | .838E+03 | 180.000 | 1856.372 | 12.245 | .00003 |
| 73. | 1863.316 | 11.729 | .38E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .842E+03 | -180.000 | 1863.266 | 11.729 | .00003 |
| 74. | 1869.917 | 11.175 | .39E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .846E+03 | 180.000 | 1869.867 | 11.174 | .00003 |
| 75. | 1876.203 | 10.586 | .40E-05 | 0.00 | .10E-05 | 0.000 | .50E-05 | 90.000 | .851E+03 | -180.000 | 1876.152 | 10.585 | .00003 |
| 76. | 1882.152 | 9.970 | .40E-05 | 0.00 | .10E-05 | 0.000 | .50E-05 | 90.000 | .857E+03 | -180.000 | 1882.100 | 9.969 | .00003 |
| 77. | 1887.740 | 9.329 | .41E-05 | 0.00 | .90E-06 | 0.000 | .50E-05 | 90.000 | .863E+03 | 180.000 | 1887.693 | 9.328 | .00003 |
| 78. | 1892.972 | 8.668 | .42E-05 | 0.00 | .91E-06 | 0.000 | .51E-05 | 90.000 | .869E+03 | -180.000 | 1892.916 | 8.667 | .00003 |
| 79. | 1897.810 | 7.990 | .42E-05 | 0.00 | .85E-06 | 0.000 | .51E-05 | 90.000 | .874E+03 | -180.000 | 1897.761 | 7.988 | .00003 |
| 80. | 1902.207 | 7.297 | .43E-05 | 0.00 | .79E-06 | 0.000 | .51E-05 | 90.000 | .879E+03 | -180.000 | 1902.211 | 7.296 | .00003 |
| 81. | 1906.316 | 6.593 | .43E-05 | 0.00 | .73E-06 | 0.000 | .51E-05 | 90.000 | .884E+03 | 180.000 | 1906.260 | 6.592 | .00003 |
| 82. | 1909.956 | 5.880 | .43E-05 | 0.00 | .66E-06 | 0.000 | .52E-05 | 90.000 | .889E+03 | -180.000 | 1909.899 | 5.879 | .00003 |
| 83. | 1913.180 | 5.159 | .44E-05 | 0.00 | .58E-06 | 0.000 | .52E-05 | 90.000 | .893E+03 | -180.000 | 1913.123 | 5.158 | .00003 |
| 84. | 1915.984 | 4.432 | .44E-05 | 0.00 | .50E-06 | 0.000 | .52E-05 | 90.000 | .897E+03 | -180.000 | 1915.926 | 4.431 | .00003 |
| 85. | 1918.363 | 3.700 | .44E-05 | 0.00 | .43E-06 | 0.000 | .52E-05 | 90.000 | .901E+03 | -180.000 | 1918.304 | 3.699 | .00003 |
| 86. | 1920.313 | 2.964 | .44E-05 | 0.00 | .34E-06 | 0.000 | .52E-05 | 90.000 | .904E+03 | 180.000 | 1920.254 | 2.963 | .00003 |
| 87. | 1921.833 | 2.225 | .44E-05 | 0.00 | .25E-06 | 0.000 | .52E-05 | 90.000 | .906E+03 | -180.000 | 1921.773 | 2.225 | .00003 |
| 88. | 1922.919 | 1.485 | .45E-05 | 0.00 | .17E-06 | 0.000 | .52E-05 | 90.000 | .907E+03 | -180.000 | 1922.860 | 1.484 | .00003 |
| 89. | 1923.572 | .743 | .45E-05 | 0.00 | .87E-07 | 0.000 | .52E-05 | 90.000 | .908E+03 | -180.000 | 1923.512 | .742 | .00003 |
| 90. | 1923.790 | 0.000 | .45E-05 | 0.00 | 0. | 0.000 | .52E-05 | 90.000 | .909E+03 | 180.000 | 1923.730 | 0.000 | .00003 |
| 91. | 1923.572 | -.743 | .45E-05 | 0.00 | .87E-07 | 180.000 | .52E-05 | 90.000 | .908E+03 | 180.000 | 1923.512 | -.742 | .00003 |
| 92. | 1922.919 | -1.485 | .45E-05 | 0.00 | .17E-06 | 180.000 | .52E-05 | 90.000 | .907E+03 | 180.000 | 1922.860 | -1.484 | .00003 |
| 93. | 1921.833 | -2.225 | .44E-05 | 0.00 | .26E-06 | -180.000 | .52E-05 | 90.000 | .906E+03 | -180.000 | 1921.773 | -2.225 | .00003 |
| 94. | 1920.313 | -2.964 | .44E-05 | 0.00 | .34E-06 | -180.000 | .52E-05 | 90.000 | .904E+03 | -180.000 | 1920.254 | -2.963 | .00003 |
| 95. | 1918.363 | -3.700 | .44E-05 | 0.00 | .43E-06 | -180.000 | .52E-05 | 90.000 | .901E+03 | -180.000 | 1918.304 | -3.699 | .00003 |
| 96. | 1915.984 | -4.432 | .44E-05 | 0.00 | .50E-06 | -180.000 | .52E-05 | 90.000 | .897E+03 | 180.000 | 1915.926 | -4.431 | .00003 |
| 97. | 1913.180 | -5.159 | .44E-05 | 0.00 | .58E-06 | -180.000 | .52E-05 | 90.000 | .893E+03 | -180.000 | 1913.123 | -5.158 | .00003 |
| 98. | 1909.950 | -5.880 | .43E-05 | 0.00 | .66E-06 | -180.000 | .52E-05 | 90.000 | .889E+03 | -180.000 | 1909.899 | -5.879 | .00003 |
| 99. | 1906.316 | -6.593 | .43E-05 | 0.00 | .73E-06 | -180.000 | .51E-05 | 90.000 | .884E+03 | 180.000 | 1906.260 | -6.592 | .00003 |

110-CUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1902.207 | -7.297 | .43E-05 | 0.00 | .79E-06 | 180.000 | .51E-05 | 90.000 | .879E+03 | 180.000 | 1902.211 | -7.296 | .00003 |
| 101. | 1897.010 | -7.990 | .42E-05 | 0.00 | .85E-06 | 180.000 | .51E-05 | 90.000 | .874E+03 | 180.000 | 1897.761 | -7.988 | .00003 |
| 102. | 1892.972 | -8.668 | .42E-05 | 0.00 | .91E-06 | -180.000 | .51E-05 | 90.000 | .868E+03 | -180.000 | 1892.918 | -8.667 | .00003 |
| 103. | 1887.746 | -9.329 | .41E-05 | 0.00 | .96E-06 | -180.000 | .50E-05 | 90.000 | .863E+03 | 180.000 | 1887.693 | -9.328 | .00003 |
| 104. | 1882.152 | -9.970 | .40E-05 | 0.00 | .10E-05 | 180.000 | .50E-05 | 90.000 | .857E+03 | 180.000 | 1882.100 | -9.969 | .00003 |
| 105. | 1876.203 | -10.586 | .40E-05 | 0.00 | .10E-05 | -180.000 | .50E-05 | 90.000 | .851E+03 | 180.000 | 1876.152 | -10.585 | .00003 |
| 106. | 1869.917 | -11.175 | .39E-05 | 0.00 | .10E-05 | -180.000 | .49E-05 | 90.000 | .846E+03 | -180.000 | 1869.867 | -11.174 | .00003 |
| 107. | 1863.316 | -11.729 | .38E-05 | 0.00 | .11E-05 | -180.000 | .49E-05 | 90.000 | .842E+03 | -180.000 | 1863.266 | -11.729 | .00003 |
| 108. | 1856.421 | -12.245 | .37E-05 | 0.00 | .11E-05 | -180.000 | .48E-05 | 90.000 | .838E+03 | -180.000 | 1856.372 | -12.245 | .00003 |
| 109. | 1849.201 | -12.710 | .37E-05 | 0.00 | .11E-05 | -180.000 | .48E-05 | 90.000 | .834E+03 | 180.000 | 1849.213 | -12.716 | .00003 |
| 110. | 1841.865 | -13.136 | .36E-05 | 0.00 | .10E-05 | -180.000 | .47E-05 | 90.000 | .832E+03 | -180.000 | 1841.817 | -13.136 | .00003 |
| 111. | 1834.209 | -13.498 | .35E-05 | 0.00 | .10E-05 | -180.000 | .46E-05 | 90.000 | .830E+03 | -180.000 | 1834.221 | -13.497 | .00003 |
| 112. | 1826.510 | -13.793 | .34E-05 | 0.00 | .96E-06 | -180.000 | .46E-05 | 90.000 | .829E+03 | 180.000 | 1826.463 | -13.793 | .00003 |
| 113. | 1818.631 | -14.015 | .33E-05 | 0.00 | .89E-06 | -180.000 | .45E-05 | 90.000 | .829E+03 | -180.000 | 1818.584 | -14.016 | .00003 |
| 114. | 1810.680 | -14.156 | .32E-05 | 0.00 | .82E-06 | -180.000 | .44E-05 | 90.000 | .831E+03 | -180.000 | 1810.633 | -14.156 | .00003 |
| 115. | 1802.707 | -14.207 | .31E-05 | 0.00 | .73E-06 | -180.000 | .44E-05 | 90.000 | .833E+03 | -180.000 | 1802.660 | -14.208 | .00003 |
| 116. | 1794.708 | -14.161 | .30E-05 | 0.00 | .65E-06 | -180.000 | .43E-05 | 90.000 | .836E+03 | -180.000 | 1794.721 | -14.161 | .00003 |
| 117. | 1786.920 | -14.009 | .28E-05 | 0.00 | .52E-06 | -180.000 | .43E-05 | 90.000 | .839E+03 | -180.000 | 1786.873 | -14.010 | .00003 |
| 118. | 1779.227 | -13.745 | .27E-05 | 0.00 | .41E-06 | 180.000 | .42E-05 | 90.000 | .843E+03 | 180.000 | 1779.179 | -13.746 | .00003 |
| 119. | 1771.751 | -13.362 | .26E-05 | 0.00 | .28E-06 | -180.000 | .41E-05 | 90.000 | .847E+03 | -180.000 | 1771.703 | -13.363 | .00003 |
| 120. | 1764.558 | -12.850 | .25E-05 | 0.00 | .19E-06 | -180.000 | .41E-05 | 90.000 | .851E+03 | 180.000 | 1764.510 | -12.857 | .00003 |
| 121. | 1757.715 | -12.224 | .24E-05 | 0.00 | .26E-07 | 180.000 | .40E-05 | 90.000 | .854E+03 | -180.000 | 1757.667 | -12.225 | .00003 |
| 122. | 1751.287 | -11.485 | .23E-05 | 0.00 | .10E-06 | 0.000 | .39E-05 | 90.000 | .855E+03 | 180.000 | 1751.230 | -11.485 | .00003 |
| 123. | 1745.337 | -10.681 | .23E-05 | 0.00 | .22E-06 | 0.000 | .39E-05 | 90.000 | .856E+03 | -180.000 | 1745.289 | -10.680 | .00003 |
| 124. | 1739.926 | -9.876 | .22E-05 | 0.00 | .33E-06 | 0.000 | .39E-05 | 90.000 | .854E+03 | -180.000 | 1739.876 | -9.876 | .00003 |
| 125. | 1735.108 | -8.960 | .21E-05 | 0.00 | .45E-06 | 0.000 | .38E-05 | 90.000 | .851E+03 | -180.000 | 1735.061 | -8.459 | .00003 |
| 126. | 1730.933 | -7.244 | .20E-05 | 0.00 | .51E-06 | 0.000 | .38E-05 | 90.000 | .845E+03 | 180.000 | 1730.886 | -7.243 | .00003 |
| 127. | 1727.440 | -5.944 | .20E-05 | 0.00 | .58E-06 | 0.000 | .37E-05 | 90.000 | .838E+03 | -180.000 | 1727.395 | -5.942 | .00003 |
| 128. | 1724.604 | -4.579 | .20E-05 | 0.00 | .62E-06 | 0.000 | .37E-05 | 90.000 | .828E+03 | -180.000 | 1724.619 | -4.576 | .00003 |
| 129. | 1722.625 | -3.171 | .20E-05 | 0.00 | .65E-06 | 0.000 | .37E-05 | 90.000 | .817E+03 | -180.000 | 1722.582 | -3.169 | .00002 |
| 130. | 1721.334 | -1.747 | .19E-05 | 0.00 | .65E-06 | 0.000 | .37E-05 | 90.000 | .805E+03 | -180.000 | 1721.292 | -1.745 | .00002 |
| 131. | 1720.739 | -.336 | .19E-05 | 0.00 | .62E-06 | 0.000 | .37E-05 | 90.000 | .792E+03 | -180.000 | 1720.748 | -.335 | .00002 |
| 132. | 1720.971 | 1.024 | .19E-05 | 0.00 | .57E-06 | 0.000 | .37E-05 | 90.000 | .779E+03 | 180.000 | 1720.932 | 1.026 | .00002 |
| 133. | 1721.847 | 2.298 | .20E-05 | 0.00 | .49E-06 | 0.000 | .37E-05 | 90.000 | .766E+03 | -180.000 | 1721.809 | 2.301 | .00002 |
| 134. | 1723.302 | 3.442 | .20E-05 | 0.00 | .38E-06 | 0.000 | .37E-05 | 90.000 | .755E+03 | 180.000 | 1723.325 | 3.444 | .00002 |
| 135. | 1725.435 | 4.406 | .20E-05 | 0.00 | .24E-06 | 0.000 | .36E-05 | 90.000 | .747E+03 | 180.000 | 1725.399 | 4.407 | .00002 |
| 136. | 1727.902 | 5.134 | .21E-05 | 0.00 | .66E-07 | 0.000 | .39E-05 | 90.000 | .743E+03 | 180.000 | 1727.926 | 5.134 | .00002 |
| 137. | 1730.803 | 5.567 | .21E-05 | 0.00 | .13E-06 | 180.000 | .40E-05 | 90.000 | .743E+03 | 180.000 | 1730.767 | 5.567 | .00002 |
| 138. | 1733.788 | 5.647 | .22E-05 | 0.00 | .36E-06 | -180.000 | .41E-05 | 90.000 | .750E+03 | -180.000 | 1733.751 | 5.645 | .00002 |
| 139. | 1736.710 | 5.320 | .23E-05 | 0.00 | .59E-06 | -180.000 | .42E-05 | 90.000 | .763E+03 | -180.000 | 1736.678 | 5.323 | .00002 |
| 140. | 1739.305 | 4.584 | .24E-05 | 0.00 | .82E-06 | -180.000 | .43E-05 | 90.000 | .783E+03 | 180.000 | 1739.325 | 4.579 | .00002 |
| 141. | 1741.511 | 3.438 | .25E-05 | 0.00 | .10E-05 | 180.000 | .44E-05 | 90.000 | .808E+03 | 180.000 | 1741.469 | 3.433 | .00002 |
| 142. | 1742.957 | 1.959 | .25E-05 | 0.00 | .12E-05 | -180.000 | .46E-05 | 90.000 | .836E+03 | 180.000 | 1742.912 | 1.953 | .00003 |
| 143. | 1743.553 | .256 | .20E-05 | 0.00 | .14E-05 | -180.000 | .47E-05 | 90.000 | .865E+03 | -180.000 | 1743.504 | .252 | .00003 |
| 144. | 1743.215 | -1.537 | .20E-05 | 0.00 | .15E-05 | 180.000 | .48E-05 | 90.000 | .893E+03 | -180.000 | 1743.163 | -1.543 | .00003 |
| 145. | 1741.925 | -3.307 | .20E-05 | 0.00 | .15E-05 | 180.000 | .49E-05 | 90.000 | .918E+03 | 180.000 | 1741.870 | -3.312 | .00003 |
| 146. | 1739.722 | -4.963 | .20E-05 | 0.00 | .16E-05 | 180.000 | .49E-05 | 90.000 | .939E+03 | 180.000 | 1739.604 | -4.967 | .00003 |
| 147. | 1736.681 | -6.454 | .27E-05 | 0.00 | .15E-05 | 180.000 | .50E-05 | 90.000 | .954E+03 | -180.000 | 1736.622 | -6.456 | .00003 |
| 148. | 1732.899 | -7.755 | .20E-05 | 0.00 | .15E-05 | 180.000 | .50E-05 | 90.000 | .964E+03 | -180.000 | 1732.838 | -7.757 | .00004 |
| 149. | 1728.477 | -8.867 | .20E-05 | 0.00 | .15E-05 | -180.000 | .50E-05 | 90.000 | .969E+03 | -180.000 | 1728.416 | -8.868 | .00004 |

110-CUT INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1723.519 | -9.799 | .26E-05 | 0.00 | .14E-05 | -180.000 | .50E-05 | 90.000 | .969E+03 | -180.000 | 1723.458 | -9.799 | .00004 |
| 151. | 1718.117 | -10.567 | .26E-05 | 0.00 | .13E-05 | 180.000 | .50E-05 | 90.000 | .964E+03 | 180.000 | 1718.057 | -10.565 | .00003 |
| 152. | 1712.358 | -11.186 | .26E-05 | 0.00 | .13E-05 | -180.000 | .50E-05 | 90.000 | .959E+03 | 180.000 | 1712.299 | -11.183 | .00003 |
| 153. | 1706.321 | -11.672 | .26E-05 | 0.00 | .12E-05 | 180.000 | .50E-05 | 90.000 | .954E+03 | 180.000 | 1706.264 | -11.669 | .00003 |
| 154. | 1700.075 | -12.041 | .26E-05 | 0.00 | .11E-05 | 180.000 | .50E-05 | 90.000 | .929E+03 | 180.000 | 1700.020 | -12.037 | .00003 |
| 155. | 1693.683 | -12.303 | .25E-05 | 0.00 | .10E-05 | 180.000 | .50E-05 | 90.000 | .911E+03 | 180.000 | 1693.630 | -12.299 | .00003 |
| 156. | 1687.199 | -12.470 | .25E-05 | 0.00 | .98E-06 | 180.000 | .50E-05 | 90.000 | .890E+03 | 180.000 | 1687.149 | -12.465 | .00003 |
| 157. | 1680.674 | -12.550 | .25E-05 | 0.00 | .91E-06 | 180.000 | .50E-05 | 90.000 | .867E+03 | 180.000 | 1680.627 | -12.545 | .00003 |
| 158. | 1674.154 | -12.549 | .25E-05 | 0.00 | .85E-06 | 180.000 | .50E-05 | 90.000 | .841E+03 | 180.000 | 1674.110 | -12.544 | .00003 |
| 159. | 1667.679 | -12.475 | .25E-05 | 0.00 | .79E-06 | 180.000 | .50E-05 | 90.000 | .814E+03 | 180.000 | 1667.638 | -12.470 | .00002 |
| 160. | 1661.287 | -12.332 | .25E-05 | 0.00 | .73E-06 | 180.000 | .50E-05 | 90.000 | .785E+03 | 180.000 | 1661.249 | -12.327 | .00002 |
| 161. | 1655.012 | -12.125 | .25E-05 | 0.00 | .68E-06 | 180.000 | .49E-05 | 90.000 | .754E+03 | 180.000 | 1654.977 | -12.119 | .00002 |
| 162. | 1648.886 | -11.857 | .24E-05 | 0.00 | .63E-06 | 180.000 | .49E-05 | 90.000 | .722E+03 | 180.000 | 1648.854 | -11.852 | .00002 |
| 163. | 1642.937 | -11.532 | .24E-05 | 0.00 | .58E-06 | 180.000 | .49E-05 | 90.000 | .688E+03 | 180.000 | 1642.908 | -11.527 | .00002 |
| 164. | 1637.193 | -11.153 | .24E-05 | 0.00 | .54E-06 | 180.000 | .49E-05 | 90.000 | .654E+03 | 180.000 | 1637.167 | -11.148 | .00002 |
| 165. | 1631.678 | -10.723 | .24E-05 | 0.00 | .49E-06 | 180.000 | .49E-05 | 90.000 | .618E+03 | 180.000 | 1631.655 | -10.717 | .00001 |
| 166. | 1626.415 | -10.244 | .24E-05 | 0.00 | .45E-06 | 180.000 | .49E-05 | 90.000 | .581E+03 | 180.000 | 1626.394 | -10.238 | .00001 |
| 167. | 1621.425 | -9.716 | .24E-05 | 0.00 | .41E-06 | 180.000 | .49E-05 | 90.000 | .543E+03 | 180.000 | 1621.407 | -9.713 | .00001 |
| 168. | 1616.728 | -9.150 | .24E-05 | 0.00 | .37E-06 | 180.000 | .49E-05 | 90.000 | .504E+03 | 180.000 | 1616.712 | -9.145 | .00001 |
| 169. | 1612.341 | -8.540 | .24E-05 | 0.00 | .34E-06 | 180.000 | .48E-05 | 90.000 | .465E+03 | 180.000 | 1612.328 | -8.536 | .00001 |
| 170. | 1608.282 | -7.892 | .24E-05 | 0.00 | .30E-06 | 180.000 | .48E-05 | 90.000 | .424E+03 | 180.000 | 1608.271 | -7.888 | .00001 |
| 171. | 1604.554 | -7.209 | .24E-05 | 0.00 | .27E-06 | 180.000 | .48E-05 | 90.000 | .384E+03 | 180.000 | 1604.555 | -7.205 | .00001 |
| 172. | 1601.201 | -6.493 | .23E-05 | 0.00 | .24E-06 | 180.000 | .48E-05 | 90.000 | .342E+03 | 180.000 | 1601.194 | -6.490 | 0.00000 |
| 173. | 1598.206 | -5.746 | .23E-05 | 0.00 | .20E-06 | 180.000 | .48E-05 | 90.000 | .301E+03 | 180.000 | 1598.201 | -5.745 | 0.00000 |
| 174. | 1595.589 | -4.977 | .23E-05 | 0.00 | .17E-06 | 180.000 | .48E-05 | 90.000 | .258E+03 | 180.000 | 1595.585 | -4.974 | 0.00000 |
| 175. | 1593.359 | -4.183 | .23E-05 | 0.00 | .14E-06 | 180.000 | .48E-05 | 90.000 | .216E+03 | 180.000 | 1593.356 | -4.181 | 0.00000 |
| 176. | 1591.524 | -3.370 | .23E-05 | 0.00 | .11E-06 | 180.000 | .48E-05 | 90.000 | .173E+03 | 180.000 | 1591.522 | -3.368 | 0.00000 |
| 177. | 1590.090 | -2.541 | .23E-05 | 0.00 | .85E-07 | 180.000 | .48E-05 | 90.000 | .130E+03 | 180.000 | 1590.089 | -2.540 | 0.00000 |
| 178. | 1589.062 | -1.701 | .23E-05 | 0.00 | .56E-07 | 180.000 | .48E-05 | 90.000 | .867E+02 | 180.000 | 1589.061 | -1.700 | 0.00000 |
| 179. | 1588.444 | -.852 | .23E-05 | 0.00 | .28E-07 | 180.000 | .48E-05 | 90.000 | .434E+02 | 180.000 | 1588.444 | -.852 | 0.00000 |
| 180. | 1588.238 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .48E-05 | 90.000 | 0. | 0.000 | 1588.238 | 0.000 | 0.00000 |

X-AXIS BOULE INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1839.131 | 0.000 | .47E-05 | 0.00 | 0. | 0.000 | .56E-05 | 90.000 | 0. | 0.000 | 1839.131 | 0.000 | 0.00000 |
| 1. | 1839.226 | 0.000 | .47E-05 | 0.00 | .17E-07 | 90.000 | .56E-05 | 90.000 | .157E+02 | -180.000 | 1839.226 | 0.000 | 0.00000 |
| 2. | 1839.510 | 0.000 | .47E-05 | 0.00 | .34E-07 | 90.000 | .56E-05 | 90.000 | .314E+02 | -180.000 | 1839.510 | 0.000 | 0.00000 |
| 3. | 1839.983 | 0.000 | .47E-05 | 0.00 | .51E-07 | 90.000 | .56E-05 | 90.000 | .473E+02 | -180.000 | 1839.983 | 0.000 | 0.00000 |
| 4. | 1840.642 | 0.000 | .47E-05 | 0.00 | .67E-07 | 90.000 | .56E-05 | 90.000 | .635E+02 | -180.000 | 1840.642 | 0.000 | 0.00000 |
| 5. | 1841.486 | 0.000 | .47E-05 | 0.00 | .84E-07 | 90.000 | .56E-05 | 90.000 | .799E+02 | 180.000 | 1841.485 | 0.000 | 0.00000 |
| 6. | 1842.510 | 0.000 | .47E-05 | 0.00 | .99E-07 | 90.000 | .55E-05 | 90.000 | .967E+02 | -180.000 | 1842.509 | 0.000 | 0.00000 |
| 7. | 1843.710 | 0.000 | .47E-05 | 0.00 | .11E-06 | 90.000 | .55E-05 | 90.000 | .114E+03 | 180.000 | 1843.709 | 0.000 | 0.00000 |
| 8. | 1845.083 | 0.000 | .47E-05 | 0.00 | .13E-06 | 90.000 | .55E-05 | 90.000 | .132E+03 | -180.000 | 1845.082 | 0.000 | 0.00000 |
| 9. | 1846.623 | 0.000 | .47E-05 | 0.00 | .14E-06 | 90.000 | .55E-05 | 90.000 | .150E+03 | -180.000 | 1846.621 | 0.000 | 0.00000 |
| 10. | 1848.323 | 0.000 | .47E-05 | 0.00 | .16E-06 | 90.000 | .55E-05 | 90.000 | .169E+03 | -180.000 | 1848.321 | 0.000 | 0.00000 |
| 11. | 1850.176 | 0.000 | .47E-05 | 0.00 | .17E-06 | 90.000 | .55E-05 | 90.000 | .188E+03 | -180.000 | 1850.174 | 0.000 | 0.00000 |
| 12. | 1852.176 | 0.000 | .47E-05 | 0.00 | .18E-06 | 90.000 | .55E-05 | 90.000 | .208E+03 | -180.000 | 1852.173 | 0.000 | 0.00000 |
| 13. | 1854.314 | 0.000 | .47E-05 | 0.00 | .19E-06 | 90.000 | .55E-05 | 90.000 | .229E+03 | -180.000 | 1854.310 | 0.000 | 0.00000 |
| 14. | 1856.581 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .55E-05 | 90.000 | .251E+03 | -180.000 | 1856.577 | 0.000 | 0.00000 |
| 15. | 1858.968 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .55E-05 | 90.000 | .273E+03 | -180.000 | 1858.963 | 0.000 | 0.00000 |
| 16. | 1861.465 | 0.000 | .46E-05 | 0.00 | .21E-06 | 90.000 | .55E-05 | 90.000 | .296E+03 | 180.000 | 1861.459 | 0.000 | 0.00000 |
| 17. | 1864.062 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .55E-05 | 90.000 | .320E+03 | -180.000 | 1864.054 | 0.000 | 0.00000 |
| 18. | 1866.746 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .345E+03 | -180.000 | 1866.737 | 0.000 | 0.00000 |
| 19. | 1869.506 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .370E+03 | -180.000 | 1869.497 | 0.000 | 0.00000 |
| 20. | 1872.331 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .396E+03 | -180.000 | 1872.320 | 0.000 | .00001 |
| 21. | 1875.207 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .422E+03 | -180.000 | 1875.194 | 0.000 | .00001 |
| 22. | 1878.121 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .449E+03 | -180.000 | 1878.107 | 0.000 | .00001 |
| 23. | 1881.060 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .477E+03 | -180.000 | 1881.044 | 0.000 | .00001 |
| 24. | 1884.010 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .504E+03 | -180.000 | 1883.992 | 0.000 | .00001 |
| 25. | 1886.956 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .532E+03 | -180.000 | 1886.936 | 0.000 | .00001 |
| 26. | 1889.885 | 0.000 | .46E-05 | 0.00 | .21E-06 | 90.000 | .54E-05 | 90.000 | .560E+03 | -180.000 | 1889.862 | 0.000 | .00001 |
| 27. | 1892.781 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .53E-05 | 90.000 | .588E+03 | 180.000 | 1892.756 | 0.000 | .00001 |
| 28. | 1895.630 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .53E-05 | 90.000 | .616E+03 | -180.000 | 1895.603 | 0.000 | .00001 |
| 29. | 1898.417 | 0.000 | .45E-05 | 0.00 | .19E-06 | 90.000 | .53E-05 | 90.000 | .644E+03 | -180.000 | 1898.388 | 0.000 | .00002 |
| 30. | 1901.128 | 0.000 | .45E-05 | 0.00 | .18E-06 | 90.000 | .53E-05 | 90.000 | .671E+03 | -180.000 | 1901.096 | 0.000 | .00002 |
| 31. | 1903.747 | 0.000 | .45E-05 | 0.00 | .17E-06 | 90.000 | .53E-05 | 90.000 | .697E+03 | -180.000 | 1903.713 | 0.000 | .00002 |
| 32. | 1906.261 | 0.000 | .45E-05 | 0.00 | .16E-06 | 90.000 | .53E-05 | 90.000 | .723E+03 | 180.000 | 1906.224 | 0.000 | .00002 |
| 33. | 1908.655 | 0.000 | .45E-05 | 0.00 | .15E-06 | 90.000 | .53E-05 | 90.000 | .747E+03 | -180.000 | 1908.615 | 0.000 | .00002 |
| 34. | 1910.916 | 0.000 | .45E-05 | 0.00 | .14E-06 | 90.000 | .53E-05 | 90.000 | .771E+03 | -180.000 | 1910.873 | 0.000 | .00002 |
| 35. | 1913.030 | 0.000 | .45E-05 | 0.00 | .13E-06 | 90.000 | .53E-05 | 90.000 | .793E+03 | -180.000 | 1912.984 | 0.000 | .00002 |
| 36. | 1914.984 | 0.000 | .45E-05 | 0.00 | .12E-06 | 90.000 | .53E-05 | 90.000 | .814E+03 | 180.000 | 1914.937 | 0.000 | .00002 |
| 37. | 1916.768 | 0.000 | .45E-05 | 0.00 | .10E-06 | 90.000 | .53E-05 | 90.000 | .833E+03 | -180.000 | 1916.718 | 0.000 | .00003 |
| 38. | 1918.370 | 0.000 | .45E-05 | 0.00 | .91E-07 | 90.000 | .53E-05 | 90.000 | .850E+03 | 180.000 | 1918.318 | 0.000 | .00003 |
| 39. | 1919.779 | 0.000 | .45E-05 | 0.00 | .78E-07 | 90.000 | .53E-05 | 90.000 | .865E+03 | -180.000 | 1919.725 | 0.000 | .00003 |
| 40. | 1920.988 | 0.000 | .45E-05 | 0.00 | .65E-07 | 90.000 | .53E-05 | 90.000 | .878E+03 | -180.000 | 1920.932 | 0.000 | .00003 |
| 41. | 1921.988 | 0.000 | .45E-05 | 0.00 | .52E-07 | 90.000 | .53E-05 | 90.000 | .889E+03 | -180.000 | 1921.930 | 0.000 | .00003 |
| 42. | 1922.772 | 0.000 | .45E-05 | 0.00 | .39E-07 | 90.000 | .52E-05 | 90.000 | .898E+03 | -180.000 | 1922.714 | 0.000 | .00003 |
| 43. | 1923.336 | 0.000 | .45E-05 | 0.00 | .26E-07 | 90.000 | .52E-05 | 90.000 | .904E+03 | 180.000 | 1923.277 | 0.000 | .00003 |
| 44. | 1923.676 | 0.000 | .45E-05 | 0.00 | .13E-07 | 90.000 | .52E-05 | 90.000 | .907E+03 | -180.000 | 1923.616 | 0.000 | .00003 |
| 45. | 1923.790 | 0.000 | .45E-05 | 0.00 | 0. | 0.000 | .52E-05 | 90.000 | .909E+03 | -180.000 | 1923.730 | 0.000 | .00003 |
| 46. | 1923.676 | 0.000 | .45E-05 | 0.00 | .13E-07 | -90.000 | .52E-05 | 90.000 | .907E+03 | 180.000 | 1923.616 | 0.000 | .00003 |
| 47. | 1923.336 | 0.000 | .45E-05 | 0.00 | .26E-07 | -90.000 | .52E-05 | 90.000 | .904E+03 | 180.000 | 1923.277 | 0.000 | .00003 |
| 48. | 1922.772 | 0.000 | .45E-05 | 0.00 | .39E-07 | -90.000 | .52E-05 | 90.000 | .898E+03 | -180.000 | 1922.714 | 0.000 | .00003 |
| 49. | 1921.988 | 0.000 | .45E-05 | 0.00 | .52E-07 | -90.000 | .53E-05 | 90.000 | .889E+03 | -180.000 | 1921.930 | 0.000 | .00003 |

X-AXIS BOULE INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1920.988 | 0.000 | .45E-05 | 0.00 | .65E-07 | -90.000 | .53E-05 | 90.000 | .878E+03 | -180.000 | 1920.932 | 0.000 | .00003 |
| 51. | 1919.779 | 0.000 | .45E-05 | 0.00 | .78E-07 | -90.000 | .53E-05 | 90.000 | .865E+03 | -180.000 | 1919.725 | 0.000 | .00003 |
| 52. | 1918.370 | 0.000 | .45E-05 | 0.00 | .91E-07 | -90.000 | .53E-05 | 90.000 | .850E+03 | -180.000 | 1918.318 | 0.000 | .00003 |
| 53. | 1916.768 | 0.000 | .45E-05 | 0.00 | .10E-06 | -90.000 | .53E-05 | 90.000 | .833E+03 | 180.000 | 1916.718 | 0.000 | .00003 |
| 54. | 1914.984 | 0.000 | .45E-05 | 0.00 | .12E-06 | -90.000 | .53E-05 | 90.000 | .814E+03 | 180.000 | 1914.937 | 0.000 | .00002 |
| 55. | 1913.030 | 0.000 | .45E-05 | 0.00 | .13E-06 | -90.000 | .53E-05 | 90.000 | .793E+03 | -180.000 | 1912.984 | 0.000 | .00002 |
| 56. | 1910.916 | 0.000 | .45E-05 | 0.00 | .14E-06 | -90.000 | .53E-05 | 90.000 | .771E+03 | 180.000 | 1910.873 | 0.000 | .00002 |
| 57. | 1908.655 | 0.000 | .45E-05 | 0.00 | .15E-06 | -90.000 | .53E-05 | 90.000 | .747E+03 | -180.000 | 1908.615 | 0.000 | .00002 |
| 58. | 1906.261 | 0.000 | .45E-05 | 0.00 | .16E-06 | -90.000 | .53E-05 | 90.000 | .723E+03 | 180.000 | 1906.224 | 0.000 | .00002 |
| 59. | 1903.747 | 0.000 | .45E-05 | 0.00 | .17E-06 | -90.000 | .53E-05 | 90.000 | .697E+03 | -180.000 | 1903.713 | 0.000 | .00002 |
| 60. | 1901.128 | 0.000 | .45E-05 | 0.00 | .18E-06 | -90.000 | .53E-05 | 90.000 | .671E+03 | -180.000 | 1901.096 | 0.000 | .00002 |
| 61. | 1898.417 | 0.000 | .45E-05 | 0.00 | .19E-06 | -90.000 | .53E-05 | 90.000 | .644E+03 | 180.000 | 1898.388 | 0.000 | .00002 |
| 62. | 1895.630 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .53E-05 | 90.000 | .616E+03 | -180.000 | 1895.603 | 0.000 | .00001 |
| 63. | 1892.781 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .53E-05 | 90.000 | .588E+03 | -180.000 | 1892.756 | 0.000 | .00001 |
| 64. | 1889.885 | 0.000 | .46E-05 | 0.00 | .21E-06 | -90.000 | .54E-05 | 90.000 | .560E+03 | -180.000 | 1889.862 | 0.000 | .00001 |
| 65. | 1886.956 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .532E+03 | -180.000 | 1886.936 | 0.000 | .00001 |
| 66. | 1884.010 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .504E+03 | -180.000 | 1883.992 | 0.000 | .00001 |
| 67. | 1881.060 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .477E+03 | -180.000 | 1881.044 | 0.000 | .00001 |
| 68. | 1878.121 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .449E+03 | -180.000 | 1878.107 | 0.000 | .00001 |
| 69. | 1875.207 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .422E+03 | -180.000 | 1875.194 | 0.000 | .00001 |
| 70. | 1872.331 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .396E+03 | -180.000 | 1872.320 | 0.000 | .00001 |
| 71. | 1869.506 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .370E+03 | -180.000 | 1869.497 | 0.000 | 0.00000 |
| 72. | 1866.746 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .345E+03 | -180.000 | 1866.737 | 0.000 | 0.00000 |
| 73. | 1864.062 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .55E-05 | 90.000 | .320E+03 | -180.000 | 1864.054 | 0.000 | 0.00000 |
| 74. | 1861.465 | 0.000 | .46E-05 | 0.00 | .21E-06 | -90.000 | .55E-05 | 90.000 | .296E+03 | -180.000 | 1861.459 | 0.000 | 0.00000 |
| 75. | 1858.968 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .55E-05 | 90.000 | .273E+03 | -180.000 | 1858.963 | 0.000 | 0.00000 |
| 76. | 1856.581 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .55E-05 | 90.000 | .251E+03 | -180.000 | 1856.577 | 0.000 | 0.00000 |
| 77. | 1854.314 | 0.000 | .47E-05 | 0.00 | .19E-06 | -90.000 | .55E-05 | 90.000 | .229E+03 | -180.000 | 1854.310 | 0.000 | 0.00000 |
| 78. | 1852.176 | 0.000 | .47E-05 | 0.00 | .18E-06 | -90.000 | .55E-05 | 90.000 | .208E+03 | -180.000 | 1852.173 | 0.000 | 0.00000 |
| 79. | 1850.176 | 0.000 | .47E-05 | 0.00 | .17E-06 | -90.000 | .55E-05 | 90.000 | .188E+03 | -180.000 | 1850.174 | 0.000 | 0.00000 |
| 80. | 1848.323 | 0.000 | .47E-05 | 0.00 | .16E-06 | -90.000 | .55E-05 | 90.000 | .169E+03 | -180.000 | 1848.321 | 0.000 | 0.00000 |
| 81. | 1846.623 | 0.000 | .47E-05 | 0.00 | .14E-06 | -90.000 | .55E-05 | 90.000 | .150E+03 | -180.000 | 1846.621 | 0.000 | 0.00000 |
| 82. | 1845.083 | 0.000 | .47E-05 | 0.00 | .13E-06 | -90.000 | .55E-05 | 90.000 | .132E+03 | -180.000 | 1845.082 | 0.000 | 0.00000 |
| 83. | 1843.710 | 0.000 | .47E-05 | 0.00 | .11E-06 | -90.000 | .55E-05 | 90.000 | .114E+03 | -180.000 | 1843.709 | 0.000 | 0.00000 |
| 84. | 1842.510 | 0.000 | .47E-05 | 0.00 | .99E-07 | -90.000 | .55E-05 | 90.000 | .967E+02 | -180.000 | 1842.509 | 0.000 | 0.00000 |
| 85. | 1841.486 | 0.000 | .47E-05 | 0.00 | .84E-07 | -90.000 | .56E-05 | 90.000 | .799E+02 | -180.000 | 1841.485 | 0.000 | 0.00000 |
| 86. | 1840.642 | 0.000 | .47E-05 | 0.00 | .67E-07 | -90.000 | .56E-05 | 90.000 | .635E+02 | -180.000 | 1840.642 | 0.000 | 0.00000 |
| 87. | 1839.983 | 0.000 | .47E-05 | 0.00 | .51E-07 | -90.000 | .56E-05 | 90.000 | .473E+02 | -180.000 | 1839.983 | 0.000 | 0.00000 |
| 88. | 1839.510 | 0.000 | .47E-05 | 0.00 | .34E-07 | -90.000 | .56E-05 | 90.000 | .314E+02 | -180.000 | 1839.510 | 0.000 | 0.00000 |
| 89. | 1839.226 | 0.000 | .47E-05 | 0.00 | .17E-07 | -90.000 | .56E-05 | 90.000 | .157E+02 | -180.000 | 1839.226 | 0.000 | 0.00000 |
| 90. | 1839.131 | 0.000 | .47E-05 | 0.00 | 0. | 0.000 | .56E-05 | 90.000 | 0. | 0.000 | 1839.131 | 0.000 | 0.00000 |
| 91. | 1839.226 | 0.000 | .47E-05 | 0.00 | .17E-07 | 90.000 | .56E-05 | 90.000 | .157E+02 | 0.000 | 1839.226 | 0.000 | 0.00000 |
| 92. | 1839.510 | 0.000 | .47E-05 | 0.00 | .34E-07 | 90.000 | .56E-05 | 90.000 | .314E+02 | 0.000 | 1839.510 | 0.000 | 0.00000 |
| 93. | 1839.983 | 0.000 | .47E-05 | 0.00 | .51E-07 | 90.000 | .56E-05 | 90.000 | .473E+02 | 0.000 | 1839.983 | 0.000 | 0.00000 |
| 94. | 1840.642 | 0.000 | .47E-05 | 0.00 | .67E-07 | 90.000 | .56E-05 | 90.000 | .635E+02 | 0.000 | 1840.642 | 0.000 | 0.00000 |
| 95. | 1841.486 | 0.000 | .47E-05 | 0.00 | .84E-07 | 90.000 | .56E-05 | 90.000 | .799E+02 | 0.000 | 1841.485 | 0.000 | 0.00000 |
| 96. | 1842.510 | 0.000 | .47E-05 | 0.00 | .99E-07 | 90.000 | .55E-05 | 90.000 | .967E+02 | 0.000 | 1842.509 | 0.000 | 0.00000 |
| 97. | 1843.710 | 0.000 | .47E-05 | 0.00 | .11E-06 | 90.000 | .55E-05 | 90.000 | .114E+03 | 0.000 | 1843.709 | 0.000 | 0.00000 |
| 98. | 1845.083 | 0.000 | .47E-05 | 0.00 | .13E-06 | 90.000 | .55E-05 | 90.000 | .132E+03 | 0.000 | 1845.082 | 0.000 | 0.00000 |
| 99. | 1846.623 | 0.000 | .47E-05 | 0.00 | .14E-06 | 90.000 | .55E-05 | 90.000 | .150E+03 | 0.000 | 1846.621 | 0.000 | 0.00000 |

X-AXIS BOULE INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1848.323 | 0.000 | .47E-05 | 0.00 | .16E-06 | 90.000 | .55E-05 | 90.000 | .169E+03 | 0.000 | 1848.321 | 0.000 | 0.00000 |
| 101. | 1850.176 | 0.000 | .47E-05 | 0.00 | .17E-06 | 90.000 | .55E-05 | 90.000 | .188E+03 | 0.000 | 1850.174 | 0.000 | 0.00000 |
| 102. | 1852.176 | 0.000 | .47E-05 | 0.00 | .18E-06 | 90.000 | .55E-05 | 90.000 | .208E+03 | 0.000 | 1852.173 | 0.000 | 0.00000 |
| 103. | 1854.314 | 0.000 | .47E-05 | 0.00 | .19E-06 | 90.000 | .55E-05 | 90.000 | .229E+03 | 0.000 | 1854.310 | 0.000 | 0.00000 |
| 104. | 1856.581 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .55E-05 | 90.000 | .251E+03 | 0.000 | 1856.577 | 0.000 | 0.00000 |
| 105. | 1858.968 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .55E-05 | 90.000 | .273E+03 | 0.000 | 1858.963 | 0.000 | 0.00000 |
| 106. | 1861.465 | 0.000 | .46E-05 | 0.00 | .21E-06 | 90.000 | .55E-05 | 90.000 | .296E+03 | 0.000 | 1861.459 | 0.000 | 0.00000 |
| 107. | 1864.062 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .55E-05 | 90.000 | .320E+03 | 0.000 | 1864.054 | 0.000 | 0.00000 |
| 108. | 1866.746 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .345E+03 | 0.000 | 1866.737 | 0.000 | 0.00000 |
| 109. | 1869.506 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .370E+03 | 0.000 | 1869.497 | 0.000 | 0.00000 |
| 110. | 1872.331 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .396E+03 | 0.000 | 1872.320 | 0.000 | .00001 |
| 111. | 1875.207 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .422E+03 | 0.000 | 1875.194 | 0.000 | .00001 |
| 112. | 1878.121 | 0.000 | .46E-05 | 0.00 | .23E-06 | 90.000 | .54E-05 | 90.000 | .449E+03 | 0.000 | 1878.107 | 0.000 | .00001 |
| 113. | 1881.060 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .477E+03 | 0.000 | 1881.044 | 0.000 | .00001 |
| 114. | 1884.010 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .504E+03 | 0.000 | 1883.992 | 0.000 | .00001 |
| 115. | 1886.956 | 0.000 | .46E-05 | 0.00 | .22E-06 | 90.000 | .54E-05 | 90.000 | .532E+03 | 0.000 | 1886.936 | 0.000 | .00001 |
| 116. | 1889.885 | 0.000 | .46E-05 | 0.00 | .21E-06 | 90.000 | .54E-05 | 90.000 | .560E+03 | 0.000 | 1889.862 | 0.000 | .00001 |
| 117. | 1892.781 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .53E-05 | 90.000 | .588E+03 | 0.000 | 1892.756 | 0.000 | .00001 |
| 118. | 1895.630 | 0.000 | .46E-05 | 0.00 | .20E-06 | 90.000 | .53E-05 | 90.000 | .616E+03 | 0.000 | 1895.603 | 0.000 | .00001 |
| 119. | 1898.417 | 0.000 | .45E-05 | 0.00 | .19E-06 | 90.000 | .53E-05 | 90.000 | .644E+03 | 0.000 | 1898.388 | 0.000 | .00002 |
| 120. | 1901.128 | 0.000 | .45E-05 | 0.00 | .18E-06 | 90.000 | .53E-05 | 90.000 | .671E+03 | 0.000 | 1901.096 | 0.000 | .00002 |
| 121. | 1903.747 | 0.000 | .45E-05 | 0.00 | .17E-06 | 90.000 | .53E-05 | 90.000 | .697E+03 | 0.000 | 1903.713 | 0.000 | .00002 |
| 122. | 1906.261 | 0.000 | .45E-05 | 0.00 | .16E-06 | 90.000 | .53E-05 | 90.000 | .723E+03 | 0.000 | 1906.224 | 0.000 | .00002 |
| 123. | 1908.655 | 0.000 | .45E-05 | 0.00 | .15E-06 | 90.000 | .53E-05 | 90.000 | .747E+03 | 0.000 | 1908.615 | 0.000 | .00002 |
| 124. | 1910.916 | 0.000 | .45E-05 | 0.00 | .14E-06 | 90.000 | .53E-05 | 90.000 | .771E+03 | 0.000 | 1910.873 | 0.000 | .00002 |
| 125. | 1913.030 | 0.000 | .45E-05 | 0.00 | .13E-06 | 90.000 | .53E-05 | 90.000 | .793E+03 | 0.000 | 1912.984 | 0.000 | .00002 |
| 126. | 1914.984 | 0.000 | .45E-05 | 0.00 | .12E-06 | 90.000 | .53E-05 | 90.000 | .814E+03 | 0.000 | 1914.937 | 0.000 | .00002 |
| 127. | 1916.768 | 0.000 | .45E-05 | 0.00 | .10E-06 | 90.000 | .53E-05 | 90.000 | .833E+03 | 0.000 | 1916.718 | 0.000 | .00003 |
| 128. | 1918.370 | 0.000 | .45E-05 | 0.00 | .91E-07 | 90.000 | .53E-05 | 90.000 | .850E+03 | 0.000 | 1918.318 | 0.000 | .00003 |
| 129. | 1919.779 | 0.000 | .45E-05 | 0.00 | .78E-07 | 90.000 | .53E-05 | 90.000 | .865E+03 | 0.000 | 1919.725 | 0.000 | .00003 |
| 130. | 1920.988 | 0.000 | .45E-05 | 0.00 | .65E-07 | 90.000 | .53E-05 | 90.000 | .878E+03 | 0.000 | 1920.932 | 0.000 | .00003 |
| 131. | 1921.988 | 0.000 | .45E-05 | 0.00 | .52E-07 | 90.000 | .53E-05 | 90.000 | .889E+03 | 0.000 | 1921.930 | 0.000 | .00003 |
| 132. | 1922.772 | 0.000 | .45E-05 | 0.00 | .39E-07 | 90.000 | .52E-05 | 90.000 | .898E+03 | 0.000 | 1922.714 | 0.000 | .00003 |
| 133. | 1923.336 | 0.000 | .45E-05 | 0.00 | .26E-07 | 90.000 | .52E-05 | 90.000 | .904E+03 | 0.000 | 1923.277 | 0.000 | .00003 |
| 134. | 1923.676 | 0.000 | .45E-05 | 0.00 | .13E-07 | 90.000 | .52E-05 | 90.000 | .907E+03 | 0.000 | 1923.616 | 0.000 | .00003 |
| 135. | 1923.790 | 0.000 | .45E-05 | 0.00 | 0. | 0.000 | .52E-05 | 90.000 | .909E+03 | 0.000 | 1923.730 | 0.000 | .00003 |
| 136. | 1923.676 | 0.000 | .45E-05 | 0.00 | .13E-07 | -90.000 | .52E-05 | 90.000 | .907E+03 | 0.000 | 1923.616 | 0.000 | .00003 |
| 137. | 1923.336 | 0.000 | .45E-05 | 0.00 | .26E-07 | -90.000 | .52E-05 | 90.000 | .904E+03 | 0.000 | 1923.277 | 0.000 | .00003 |
| 138. | 1922.772 | 0.000 | .45E-05 | 0.00 | .39E-07 | -90.000 | .52E-05 | 90.000 | .898E+03 | 0.000 | 1922.714 | 0.000 | .00003 |
| 139. | 1921.988 | 0.000 | .45E-05 | 0.00 | .52E-07 | -90.000 | .53E-05 | 90.000 | .889E+03 | 0.000 | 1921.930 | 0.000 | .00003 |
| 140. | 1920.988 | 0.000 | .45E-05 | 0.00 | .65E-07 | -90.000 | .53E-05 | 90.000 | .878E+03 | 0.000 | 1920.932 | 0.000 | .00003 |
| 141. | 1919.779 | 0.000 | .45E-05 | 0.00 | .78E-07 | -90.000 | .53E-05 | 90.000 | .865E+03 | 0.000 | 1919.725 | 0.000 | .00003 |
| 142. | 1918.370 | 0.000 | .45E-05 | 0.00 | .91E-07 | -90.000 | .53E-05 | 90.000 | .850E+03 | 0.000 | 1918.318 | 0.000 | .00003 |
| 143. | 1916.768 | 0.000 | .45E-05 | 0.00 | .10E-06 | -90.000 | .53E-05 | 90.000 | .833E+03 | 0.000 | 1916.718 | 0.000 | .00003 |
| 144. | 1914.984 | 0.000 | .45E-05 | 0.00 | .12E-06 | -90.000 | .53E-05 | 90.000 | .814E+03 | 0.000 | 1914.937 | 0.000 | .00002 |
| 145. | 1913.030 | 0.000 | .45E-05 | 0.00 | .13E-06 | -90.000 | .53E-05 | 90.000 | .793E+03 | 0.000 | 1912.984 | 0.000 | .00002 |
| 146. | 1910.916 | 0.000 | .45E-05 | 0.00 | .14E-06 | -90.000 | .53E-05 | 90.000 | .771E+03 | 0.000 | 1910.873 | 0.000 | .00002 |
| 147. | 1908.655 | 0.000 | .45E-05 | 0.00 | .15E-06 | -90.000 | .53E-05 | 90.000 | .747E+03 | 0.000 | 1908.615 | 0.000 | .00002 |
| 148. | 1906.261 | 0.000 | .45E-05 | 0.00 | .16E-06 | -90.000 | .53E-05 | 90.000 | .723E+03 | 0.000 | 1906.224 | 0.000 | .00002 |
| 149. | 1903.747 | 0.000 | .45E-05 | 0.00 | .17E-06 | -90.000 | .53E-05 | 90.000 | .697E+03 | 0.000 | 1903.713 | 0.000 | .00002 |

X-AXIS BOULE INDIUM ANTIMONIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1901.128 | 0.000 | .45E-05 | 0.00 | .18E-06 | -90.000 | .53E-05 | 90.000 | .671E+03 | 0.000 | 1901.096 | 0.000 | .00002 |
| 151. | 1898.417 | 0.000 | .45E-05 | 0.00 | .19E-06 | -90.000 | .53E-05 | 90.000 | .644E+03 | 0.000 | 1898.388 | 0.000 | .00002 |
| 152. | 1895.630 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .53E-05 | 90.000 | .616E+03 | 0.000 | 1895.603 | 0.000 | .00001 |
| 153. | 1892.781 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .53E-05 | 90.000 | .588E+03 | 0.000 | 1892.756 | 0.000 | .00001 |
| 154. | 1889.885 | 0.000 | .46E-05 | 0.00 | .21E-06 | -90.000 | .54E-05 | 90.000 | .560E+03 | 0.000 | 1889.862 | 0.000 | .00001 |
| 155. | 1886.956 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .532E+03 | 0.000 | 1886.936 | 0.000 | .00001 |
| 156. | 1884.010 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .504E+03 | 0.000 | 1883.992 | 0.000 | .00001 |
| 157. | 1881.060 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .477E+03 | 0.000 | 1881.044 | 0.000 | .00001 |
| 158. | 1878.121 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .449E+03 | 0.000 | 1878.107 | 0.000 | .00001 |
| 159. | 1875.207 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .422E+03 | 0.000 | 1875.194 | 0.000 | .00001 |
| 160. | 1872.331 | 0.000 | .46E-05 | 0.00 | .23E-06 | -90.000 | .54E-05 | 90.000 | .396E+03 | 0.000 | 1872.320 | 0.000 | .00001 |
| 161. | 1869.506 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .370E+03 | 0.000 | 1869.497 | 0.000 | 0.00000 |
| 162. | 1866.746 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .54E-05 | 90.000 | .345E+03 | 0.000 | 1866.737 | 0.000 | 0.00000 |
| 163. | 1864.062 | 0.000 | .46E-05 | 0.00 | .22E-06 | -90.000 | .55E-05 | 90.000 | .320E+03 | 0.000 | 1864.054 | 0.000 | 0.00000 |
| 164. | 1861.465 | 0.000 | .46E-05 | 0.00 | .21E-06 | -90.000 | .55E-05 | 90.000 | .296E+03 | 0.000 | 1861.459 | 0.000 | 0.00000 |
| 165. | 1858.968 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .55E-05 | 90.000 | .273E+03 | 0.000 | 1858.963 | 0.000 | 0.00000 |
| 166. | 1856.581 | 0.000 | .46E-05 | 0.00 | .20E-06 | -90.000 | .55E-05 | 90.000 | .251E+03 | 0.000 | 1856.577 | 0.000 | 0.00000 |
| 167. | 1854.314 | 0.000 | .47E-05 | 0.00 | .19E-06 | -90.000 | .55E-05 | 90.000 | .229E+03 | 0.000 | 1854.310 | 0.000 | 0.00000 |
| 168. | 1852.176 | 0.000 | .47E-05 | 0.00 | .18E-06 | -90.000 | .55E-05 | 90.000 | .208E+03 | 0.000 | 1852.173 | 0.000 | 0.00000 |
| 169. | 1850.176 | 0.000 | .47E-05 | 0.00 | .17E-06 | -90.000 | .55E-05 | 90.000 | .188E+03 | 0.000 | 1850.174 | 0.000 | 0.00000 |
| 170. | 1848.323 | 0.000 | .47E-05 | 0.00 | .16E-06 | -90.000 | .55E-05 | 90.000 | .169E+03 | 0.000 | 1848.321 | 0.000 | 0.00000 |
| 171. | 1846.623 | 0.000 | .47E-05 | 0.00 | .14E-06 | -90.000 | .55E-05 | 90.000 | .150E+03 | 0.000 | 1846.621 | 0.000 | 0.00000 |
| 172. | 1845.083 | 0.000 | .47E-05 | 0.00 | .13E-06 | -90.000 | .55E-05 | 90.000 | .132E+03 | 0.000 | 1845.082 | 0.000 | 0.00000 |
| 173. | 1843.710 | 0.000 | .47E-05 | 0.00 | .11E-06 | -90.000 | .55E-05 | 90.000 | .114E+03 | 0.000 | 1843.709 | 0.000 | 0.00000 |
| 174. | 1842.510 | 0.000 | .47E-05 | 0.00 | .99E-07 | -90.000 | .55E-05 | 90.000 | .967E+02 | 0.000 | 1842.509 | 0.000 | 0.00000 |
| 175. | 1841.486 | 0.000 | .47E-05 | 0.00 | .84E-07 | -90.000 | .56E-05 | 90.000 | .799E+02 | 0.000 | 1841.485 | 0.000 | 0.00000 |
| 176. | 1840.642 | 0.000 | .47E-05 | 0.00 | .67E-07 | -90.000 | .56E-05 | 90.000 | .635E+02 | 0.000 | 1840.642 | 0.000 | 0.00000 |
| 177. | 1839.983 | 0.000 | .47E-05 | 0.00 | .51E-07 | -90.000 | .56E-05 | 90.000 | .473E+02 | 0.000 | 1839.983 | 0.000 | 0.00000 |
| 178. | 1839.510 | 0.000 | .47E-05 | 0.00 | .34E-07 | -90.000 | .56E-05 | 90.000 | .314E+02 | 0.000 | 1839.510 | 0.000 | 0.00000 |
| 179. | 1839.226 | 0.000 | .47E-05 | 0.00 | .17E-07 | -90.000 | .56E-05 | 90.000 | .157E+02 | 0.000 | 1839.226 | 0.000 | 0.00000 |
| 180. | 1839.131 | 0.000 | .47E-05 | 0.00 | 0. | 0.000 | .56E-05 | 90.000 | 0. | 0.000 | 1839.131 | 0.000 | 0.00000 |

X-AXIS BOULE INDIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 2084.488 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.000 | 0. | 0.000 | 2084.488 | 0.000 | 0.00000 |
| 1. | 2084.609 | 0.000 | .42E-05 | 0.00 | .15E-07 | 90.000 | .49E-05 | 90.000 | .827E+01 | -180.000 | 2084.609 | 0.000 | 0.00000 |
| 2. | 2084.970 | 0.000 | .42E-05 | 0.00 | .31E-07 | 90.000 | .49E-05 | 90.000 | .166E+02 | -180.000 | 2084.970 | 0.000 | 0.00000 |
| 3. | 2085.571 | 0.000 | .42E-05 | 0.00 | .46E-07 | 90.000 | .49E-05 | 90.000 | .250E+02 | 180.000 | 2085.571 | 0.000 | 0.00000 |
| 4. | 2086.409 | 0.000 | .42E-05 | 0.00 | .61E-07 | 90.000 | .49E-05 | 90.000 | .336E+02 | -180.000 | 2086.408 | 0.000 | 0.00000 |
| 5. | 2087.480 | 0.000 | .42E-05 | 0.00 | .76E-07 | 90.000 | .49E-05 | 90.000 | .424E+02 | 180.000 | 2087.480 | 0.000 | 0.00000 |
| 6. | 2088.781 | 0.000 | .42E-05 | 0.00 | .90E-07 | 90.000 | .49E-05 | 90.000 | .514E+02 | -180.000 | 2088.781 | 0.000 | 0.00000 |
| 7. | 2090.306 | 0.000 | .42E-05 | 0.00 | .10E-06 | 90.000 | .49E-05 | 90.000 | .607E+02 | 180.000 | 2090.306 | 0.000 | 0.00000 |
| 8. | 2092.050 | 0.000 | .42E-05 | 0.00 | .12E-06 | 90.000 | .49E-05 | 90.000 | .704E+02 | -180.000 | 2092.050 | 0.000 | 0.00000 |
| 9. | 2094.005 | 0.000 | .42E-05 | 0.00 | .13E-06 | 90.000 | .49E-05 | 90.000 | .804E+02 | 180.000 | 2094.005 | 0.000 | 0.00000 |
| 10. | 2096.165 | 0.000 | .42E-05 | 0.00 | .14E-06 | 90.000 | .49E-05 | 90.000 | .909E+02 | -180.000 | 2096.164 | 0.000 | 0.00000 |
| 11. | 2098.519 | 0.000 | .42E-05 | 0.00 | .15E-06 | 90.000 | .49E-05 | 90.000 | .102E+03 | 180.000 | 2098.518 | 0.000 | 0.00000 |
| 12. | 2101.059 | 0.000 | .42E-05 | 0.00 | .16E-06 | 90.000 | .49E-05 | 90.000 | .113E+03 | -180.000 | 2101.058 | 0.000 | 0.00000 |
| 13. | 2103.774 | 0.000 | .42E-05 | 0.00 | .17E-06 | 90.000 | .49E-05 | 90.000 | .125E+03 | -180.000 | 2103.773 | 0.000 | 0.00000 |
| 14. | 2106.653 | 0.000 | .42E-05 | 0.00 | .18E-06 | 90.000 | .49E-05 | 90.000 | .137E+03 | -180.000 | 2106.652 | 0.000 | 0.00000 |
| 15. | 2109.685 | 0.000 | .42E-05 | 0.00 | .18E-06 | 90.000 | .48E-05 | 90.000 | .150E+03 | -180.000 | 2109.663 | 0.000 | 0.00000 |
| 16. | 2112.855 | 0.000 | .42E-05 | 0.00 | .19E-06 | 90.000 | .48E-05 | 90.000 | .163E+03 | -180.000 | 2112.853 | 0.000 | 0.00000 |
| 17. | 2116.152 | 0.000 | .42E-05 | 0.00 | .19E-06 | 90.000 | .46E-05 | 90.000 | .177E+03 | -180.000 | 2116.149 | 0.000 | 0.00000 |
| 18. | 2119.560 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .192E+03 | -180.000 | 2119.557 | 0.000 | 0.00000 |
| 19. | 2123.065 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .46E-05 | 90.000 | .206E+03 | -180.000 | 2123.061 | 0.000 | 0.00000 |
| 20. | 2126.650 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .46E-05 | 90.000 | .222E+03 | 180.000 | 2126.647 | 0.000 | 0.00000 |
| 21. | 2130.302 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .237E+03 | -180.000 | 2130.297 | 0.000 | 0.00000 |
| 22. | 2134.001 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .253E+03 | -180.000 | 2133.996 | 0.000 | 0.00000 |
| 23. | 2137.732 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .270E+03 | -180.000 | 2137.726 | 0.000 | 0.00000 |
| 24. | 2141.476 | 0.000 | .41E-05 | 0.00 | .19E-06 | 90.000 | .47E-05 | 90.000 | .286E+03 | -180.000 | 2141.470 | 0.000 | 0.00000 |
| 25. | 2145.216 | 0.000 | .41E-05 | 0.00 | .19E-06 | 90.000 | .47E-05 | 90.000 | .303E+03 | 180.000 | 2145.210 | 0.000 | 0.00000 |
| 26. | 2148.934 | 0.000 | .41E-05 | 0.00 | .18E-06 | 90.000 | .47E-05 | 90.000 | .320E+03 | -180.000 | 2148.926 | 0.000 | 0.00000 |
| 27. | 2152.610 | 0.000 | .41E-05 | 0.00 | .18E-06 | 90.000 | .47E-05 | 90.000 | .337E+03 | 180.000 | 2152.602 | 0.000 | 0.00000 |
| 28. | 2156.227 | 0.000 | .41E-05 | 0.00 | .17E-06 | 90.000 | .47E-05 | 90.000 | .354E+03 | -180.000 | 2156.218 | 0.000 | 0.00000 |
| 29. | 2159.765 | 0.000 | .41E-05 | 0.00 | .17E-06 | 90.000 | .47E-05 | 90.000 | .371E+03 | 180.000 | 2159.755 | 0.000 | 0.00000 |
| 30. | 2163.207 | 0.000 | .41E-05 | 0.00 | .16E-06 | 90.000 | .47E-05 | 90.000 | .388E+03 | 180.000 | 2163.196 | 0.000 | .00001 |
| 31. | 2166.532 | 0.000 | .41E-05 | 0.00 | .15E-06 | 90.000 | .47E-05 | 90.000 | .404E+03 | -180.000 | 2166.520 | 0.000 | .00001 |
| 32. | 2169.724 | 0.000 | .41E-05 | 0.00 | .14E-06 | 90.000 | .47E-05 | 90.000 | .420E+03 | -180.000 | 2169.711 | 0.000 | .00001 |
| 33. | 2172.764 | 0.000 | .41E-05 | 0.00 | .13E-06 | 90.000 | .47E-05 | 90.000 | .435E+03 | -180.000 | 2172.750 | 0.000 | .00001 |
| 34. | 2175.635 | 0.000 | .41E-05 | 0.00 | .12E-06 | 90.000 | .47E-05 | 90.000 | .449E+03 | -180.000 | 2175.620 | 0.000 | .00001 |
| 35. | 2178.320 | 0.000 | .40E-05 | 0.00 | .11E-06 | 90.000 | .47E-05 | 90.000 | .463E+03 | 180.000 | 2178.304 | 0.000 | .00001 |
| 36. | 2180.802 | 0.000 | .40E-05 | 0.00 | .98E-07 | 90.000 | .46E-05 | 90.000 | .476E+03 | -180.000 | 2180.786 | 0.000 | .00001 |
| 37. | 2183.068 | 0.000 | .40E-05 | 0.00 | .87E-07 | 90.000 | .46E-05 | 90.000 | .488E+03 | -180.000 | 2183.050 | 0.000 | .00001 |
| 38. | 2185.103 | 0.000 | .40E-05 | 0.00 | .76E-07 | 90.000 | .46E-05 | 90.000 | .498E+03 | -180.000 | 2185.084 | 0.000 | .00001 |
| 39. | 2186.894 | 0.000 | .40E-05 | 0.00 | .66E-07 | 90.000 | .46E-05 | 90.000 | .508E+03 | -180.000 | 2186.875 | 0.000 | .00001 |
| 40. | 2188.430 | 0.000 | .40E-05 | 0.00 | .55E-07 | 90.000 | .46E-05 | 90.000 | .516E+03 | -180.000 | 2188.410 | 0.000 | .00001 |
| 41. | 2189.700 | 0.000 | .40E-05 | 0.00 | .44E-07 | 90.000 | .46E-05 | 90.000 | .523E+03 | -180.000 | 2189.680 | 0.000 | .00001 |
| 42. | 2190.697 | 0.000 | .40E-05 | 0.00 | .33E-07 | 90.000 | .46E-05 | 90.000 | .528E+03 | 180.000 | 2190.676 | 0.000 | .00001 |
| 43. | 2191.414 | 0.000 | .40E-05 | 0.00 | .22E-07 | 90.000 | .46E-05 | 90.000 | .532E+03 | 180.000 | 2191.393 | 0.000 | .00001 |
| 44. | 2191.846 | 0.000 | .40E-05 | 0.00 | .11E-07 | 90.000 | .46E-05 | 90.000 | .534E+03 | 180.000 | 2191.825 | 0.000 | .00001 |
| 45. | 2191.990 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .46E-05 | 90.000 | .535E+03 | -180.000 | 2191.969 | 0.000 | .00001 |
| 46. | 2191.846 | 0.000 | .40E-05 | 0.00 | .11E-07 | -90.000 | .46E-05 | 90.000 | .534E+03 | 180.000 | 2191.825 | 0.000 | .00001 |
| 47. | 2191.414 | 0.000 | .40E-05 | 0.00 | .22E-07 | -90.000 | .46E-05 | 90.000 | .532E+03 | 180.000 | 2191.393 | 0.000 | .00001 |
| 48. | 2190.697 | 0.000 | .40E-05 | 0.00 | .33E-07 | -90.000 | .46E-05 | 90.000 | .528E+03 | 180.000 | 2190.676 | 0.000 | .00001 |
| 49. | 2189.700 | 0.000 | .40E-05 | 0.00 | .44E-07 | -90.000 | .46E-05 | 90.000 | .523E+03 | -180.000 | 2189.680 | 0.000 | .00001 |

X-AXIS BOULE INDIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2188.430 | 0.000 | .40E-05 | 0.00 | .55E-07 | -90.000 | .46E-05 | 90.000 | .516E+03 | -180.000 | 2188.410 | 0.000 | .00001 |
| 51. | 2186.894 | 0.000 | .40E-05 | 0.00 | .66E-07 | -90.000 | .46E-05 | 90.000 | .508E+03 | -180.000 | 2186.875 | 0.000 | .00001 |
| 52. | 2185.103 | 0.000 | .40E-05 | 0.00 | .76E-07 | -90.000 | .46E-05 | 90.000 | .498E+03 | -180.000 | 2185.084 | 0.000 | .00001 |
| 53. | 2183.068 | 0.000 | .40E-05 | 0.00 | .87E-07 | -90.000 | .46E-05 | 90.000 | .488E+03 | 180.000 | 2183.050 | 0.000 | .00001 |
| 54. | 2180.802 | 0.000 | .40E-05 | 0.00 | .98E-07 | -90.000 | .46E-05 | 90.000 | .476E+03 | -180.000 | 2180.786 | 0.000 | .00001 |
| 55. | 2178.320 | 0.000 | .40E-05 | 0.00 | .11E-06 | -90.000 | .47E-05 | 90.000 | .463E+03 | 180.000 | 2178.304 | 0.000 | .00001 |
| 56. | 2175.635 | 0.000 | .41E-05 | 0.00 | .12E-06 | -90.000 | .47E-05 | 90.000 | .449E+03 | -180.000 | 2175.620 | 0.000 | .00001 |
| 57. | 2172.764 | 0.000 | .41E-05 | 0.00 | .13E-06 | -90.000 | .47E-05 | 90.000 | .435E+03 | -180.000 | 2172.750 | 0.000 | .00001 |
| 58. | 2169.724 | 0.000 | .41E-05 | 0.00 | .14E-06 | -90.000 | .47E-05 | 90.000 | .420E+03 | -180.000 | 2169.711 | 0.000 | .00001 |
| 59. | 2166.532 | 0.000 | .41E-05 | 0.00 | .15E-06 | -90.000 | .47E-05 | 90.000 | .404E+03 | -180.000 | 2166.520 | 0.000 | .00001 |
| 60. | 2163.207 | 0.000 | .41E-05 | 0.00 | .16E-06 | -90.000 | .47E-05 | 90.000 | .388E+03 | -180.000 | 2163.196 | 0.000 | .00001 |
| 61. | 2159.765 | 0.000 | .41E-05 | 0.00 | .17E-06 | -90.000 | .47E-05 | 90.000 | .371E+03 | -180.000 | 2159.755 | 0.000 | 0.00000 |
| 62. | 2156.227 | 0.000 | .41E-05 | 0.00 | .17E-06 | -90.000 | .47E-05 | 90.000 | .354E+03 | -180.000 | 2156.218 | 0.000 | 0.00000 |
| 63. | 2152.610 | 0.000 | .41E-05 | 0.00 | .18E-06 | -90.000 | .47E-05 | 90.000 | .337E+03 | -180.000 | 2152.602 | 0.000 | 0.00000 |
| 64. | 2148.934 | 0.000 | .41E-05 | 0.00 | .18E-06 | -90.000 | .47E-05 | 90.000 | .320E+03 | -180.000 | 2148.926 | 0.000 | 0.00000 |
| 65. | 2145.216 | 0.000 | .41E-05 | 0.00 | .19E-06 | -90.000 | .47E-05 | 90.000 | .303E+03 | -180.000 | 2145.210 | 0.000 | 0.00000 |
| 66. | 2141.476 | 0.000 | .41E-05 | 0.00 | .19E-06 | -90.000 | .47E-05 | 90.000 | .286E+03 | 180.000 | 2141.470 | 0.000 | 0.00000 |
| 67. | 2137.732 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .270E+03 | -180.000 | 2137.726 | 0.000 | 0.00000 |
| 68. | 2134.001 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .253E+03 | 180.000 | 2133.996 | 0.000 | 0.00000 |
| 69. | 2130.302 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .237E+03 | -180.000 | 2130.297 | 0.000 | 0.00000 |
| 70. | 2126.650 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .222E+03 | 180.000 | 2126.647 | 0.000 | 0.00000 |
| 71. | 2123.065 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .206E+03 | -180.000 | 2123.061 | 0.000 | 0.00000 |
| 72. | 2119.560 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .192E+03 | 180.000 | 2119.557 | 0.000 | 0.00000 |
| 73. | 2116.152 | 0.000 | .42E-05 | 0.00 | .19E-06 | -90.000 | .48E-05 | 90.000 | .177E+03 | -180.000 | 2116.149 | 0.000 | 0.00000 |
| 74. | 2112.855 | 0.000 | .42E-05 | 0.00 | .19E-06 | -90.000 | .48E-05 | 90.000 | .163E+03 | -180.000 | 2112.853 | 0.000 | 0.00000 |
| 75. | 2109.685 | 0.000 | .42E-05 | 0.00 | .18E-06 | -90.000 | .48E-05 | 90.000 | .150E+03 | -180.000 | 2109.683 | 0.000 | 0.00000 |
| 76. | 2106.653 | 0.000 | .42E-05 | 0.00 | .18E-06 | -90.000 | .49E-05 | 90.000 | .137E+03 | -180.000 | 2106.652 | 0.000 | 0.00000 |
| 77. | 2103.774 | 0.000 | .42E-05 | 0.00 | .17E-06 | -90.000 | .49E-05 | 90.000 | .125E+03 | -180.000 | 2103.773 | 0.000 | 0.00000 |
| 78. | 2101.059 | 0.000 | .42E-05 | 0.00 | .16E-06 | -90.000 | .49E-05 | 90.000 | .113E+03 | -180.000 | 2101.058 | 0.000 | 0.00000 |
| 79. | 2098.519 | 0.000 | .42E-05 | 0.00 | .15E-06 | -90.000 | .49E-05 | 90.000 | .102E+03 | -180.000 | 2098.518 | 0.000 | 0.00000 |
| 80. | 2096.165 | 0.000 | .42E-05 | 0.00 | .14E-06 | -90.000 | .49E-05 | 90.000 | .909E+02 | -180.000 | 2096.164 | 0.000 | 0.00000 |
| 81. | 2094.005 | 0.000 | .42E-05 | 0.00 | .13E-06 | -90.000 | .49E-05 | 90.000 | .804E+02 | 180.000 | 2094.005 | 0.000 | 0.00000 |
| 82. | 2092.050 | 0.000 | .42E-05 | 0.00 | .12E-06 | -90.000 | .49E-05 | 90.000 | .704E+02 | 180.000 | 2092.050 | 0.000 | 0.00000 |
| 83. | 2090.306 | 0.000 | .42E-05 | 0.00 | .10E-06 | -90.000 | .49E-05 | 90.000 | .607E+02 | -180.000 | 2090.306 | 0.000 | 0.00000 |
| 84. | 2088.781 | 0.000 | .42E-05 | 0.00 | .90E-07 | -90.000 | .49E-05 | 90.000 | .514E+02 | -180.000 | 2088.781 | 0.000 | 0.00000 |
| 85. | 2087.480 | 0.000 | .42E-05 | 0.00 | .76E-07 | -90.000 | .49E-05 | 90.000 | .424E+02 | 180.000 | 2087.480 | 0.000 | 0.00000 |
| 86. | 2086.409 | 0.000 | .42E-05 | 0.00 | .61E-07 | -90.000 | .49E-05 | 90.000 | .336E+02 | 180.000 | 2086.408 | 0.000 | 0.00000 |
| 87. | 2085.571 | 0.000 | .42E-05 | 0.00 | .46E-07 | -90.000 | .49E-05 | 90.000 | .250E+02 | -180.000 | 2085.571 | 0.000 | 0.00000 |
| 88. | 2084.970 | 0.000 | .42E-05 | 0.00 | .31E-07 | -90.000 | .49E-05 | 90.000 | .166E+02 | 180.000 | 2084.970 | 0.000 | 0.00000 |
| 89. | 2084.609 | 0.000 | .42E-05 | 0.00 | .15E-07 | -90.000 | .49E-05 | 90.000 | .827E+01 | -180.000 | 2084.609 | 0.000 | 0.00000 |
| 90. | 2084.488 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.000 | 0. | 0.000 | 2084.488 | 0.000 | 0.00000 |
| 91. | 2084.609 | 0.000 | .42E-05 | 0.00 | .15E-07 | 90.000 | .49E-05 | 90.000 | .827E+01 | 0.000 | 2084.609 | 0.000 | 0.00000 |
| 92. | 2084.970 | 0.000 | .42E-05 | 0.00 | .31E-07 | 90.000 | .49E-05 | 90.000 | .166E+02 | 0.000 | 2084.970 | 0.000 | 0.00000 |
| 93. | 2085.571 | 0.000 | .42E-05 | 0.00 | .46E-07 | 90.000 | .49E-05 | 90.000 | .250E+02 | 0.000 | 2085.571 | 0.000 | 0.00000 |
| 94. | 2086.409 | 0.000 | .42E-05 | 0.00 | .61E-07 | 90.000 | .49E-05 | 90.000 | .336E+02 | 0.000 | 2086.408 | 0.000 | 0.00000 |
| 95. | 2087.480 | 0.000 | .42E-05 | 0.00 | .76E-07 | 90.000 | .49E-05 | 90.000 | .424E+02 | 0.000 | 2087.480 | 0.000 | 0.00000 |
| 96. | 2088.781 | 0.000 | .42E-05 | 0.00 | .90E-07 | 90.000 | .49E-05 | 90.000 | .514E+02 | 0.000 | 2088.781 | 0.000 | 0.00000 |
| 97. | 2090.306 | 0.000 | .42E-05 | 0.00 | .10E-06 | 90.000 | .49E-05 | 90.000 | .607E+02 | 0.000 | 2090.306 | 0.000 | 0.00000 |
| 98. | 2092.050 | 0.000 | .42E-05 | 0.00 | .12E-06 | 90.000 | .49E-05 | 90.000 | .704E+02 | 0.000 | 2092.050 | 0.000 | 0.00000 |
| 99. | 2094.005 | 0.000 | .42E-05 | 0.00 | .13E-06 | 90.000 | .49E-05 | 90.000 | .804E+02 | 0.000 | 2094.005 | 0.000 | 0.00000 |

X-AXIS BOULE INDIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 2096.165 | 0.000 | .42E-05 | 0.00 | .14E-06 | 90.000 | .49E-05 | 90.000 | .909E+02 | 0.000 | 2096.164 | 0.000 | 0.00000 |
| 101. | 2098.519 | 0.000 | .42E-05 | 0.00 | .15E-06 | 90.000 | .49E-05 | 90.000 | .102E+03 | 0.000 | 2098.518 | 0.000 | 0.00000 |
| 102. | 2101.059 | 0.000 | .42E-05 | 0.00 | .16E-06 | 90.000 | .49E-05 | 90.000 | .113E+03 | 0.000 | 2101.058 | 0.000 | 0.00000 |
| 103. | 2103.774 | 0.000 | .42E-05 | 0.00 | .17E-06 | 90.000 | .49E-05 | 90.000 | .125E+03 | 0.000 | 2103.773 | 0.000 | 0.00000 |
| 104. | 2106.653 | 0.000 | .42E-05 | 0.00 | .18E-06 | 90.000 | .49E-05 | 90.000 | .137E+03 | 0.000 | 2106.652 | 0.000 | 0.00000 |
| 105. | 2109.685 | 0.000 | .42E-05 | 0.00 | .18E-06 | 90.000 | .48E-05 | 90.000 | .150E+03 | 0.000 | 2109.683 | 0.000 | 0.00000 |
| 106. | 2112.855 | 0.000 | .42E-05 | 0.00 | .19E-06 | 90.000 | .48E-05 | 90.000 | .163E+03 | 0.000 | 2112.853 | 0.000 | 0.00000 |
| 107. | 2116.152 | 0.000 | .42E-05 | 0.00 | .19E-06 | 90.000 | .48E-05 | 90.000 | .177E+03 | 0.000 | 2116.149 | 0.000 | 0.00000 |
| 108. | 2119.560 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .192E+03 | 0.000 | 2119.557 | 0.000 | 0.00000 |
| 109. | 2123.065 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .206E+03 | 0.000 | 2123.061 | 0.000 | 0.00000 |
| 110. | 2126.650 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .222E+03 | 0.000 | 2126.647 | 0.000 | 0.00000 |
| 111. | 2130.302 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .237E+03 | 0.000 | 2130.297 | 0.000 | 0.00000 |
| 112. | 2134.001 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .253E+03 | 0.000 | 2133.996 | 0.000 | 0.00000 |
| 113. | 2137.732 | 0.000 | .41E-05 | 0.00 | .20E-06 | 90.000 | .48E-05 | 90.000 | .270E+03 | 0.000 | 2137.726 | 0.000 | 0.00000 |
| 114. | 2141.476 | 0.000 | .41E-05 | 0.00 | .19E-06 | 90.000 | .47E-05 | 90.000 | .286E+03 | 0.000 | 2141.470 | 0.000 | 0.00000 |
| 115. | 2145.216 | 0.000 | .41E-05 | 0.00 | .19E-06 | 90.000 | .47E-05 | 90.000 | .303E+03 | 0.000 | 2145.210 | 0.000 | 0.00000 |
| 116. | 2148.934 | 0.000 | .41E-05 | 0.00 | .18E-06 | 90.000 | .47E-05 | 90.000 | .320E+03 | 0.000 | 2148.926 | 0.000 | 0.00000 |
| 117. | 2152.610 | 0.000 | .41E-05 | 0.00 | .18E-06 | 90.000 | .47E-05 | 90.000 | .337E+03 | 0.000 | 2152.602 | 0.000 | 0.00000 |
| 118. | 2156.227 | 0.000 | .41E-05 | 0.00 | .17E-06 | 90.000 | .47E-05 | 90.000 | .354E+03 | 0.000 | 2156.218 | 0.000 | 0.00000 |
| 119. | 2159.765 | 0.000 | .41E-05 | 0.00 | .17E-06 | 90.000 | .47E-05 | 90.000 | .371E+03 | 0.000 | 2159.755 | 0.000 | 0.00000 |
| 120. | 2163.207 | 0.000 | .41E-05 | 0.00 | .16E-06 | 90.000 | .47E-05 | 90.000 | .388E+03 | 0.000 | 2163.196 | 0.000 | .00001 |
| 121. | 2166.532 | 0.000 | .41E-05 | 0.00 | .15E-06 | 90.000 | .47E-05 | 90.000 | .404E+03 | 0.000 | 2166.520 | 0.000 | .00001 |
| 122. | 2169.724 | 0.000 | .41E-05 | 0.00 | .14E-06 | 90.000 | .47E-05 | 90.000 | .420E+03 | 0.000 | 2169.711 | 0.000 | .00001 |
| 123. | 2172.764 | 0.000 | .41E-05 | 0.00 | .13E-06 | 90.000 | .47E-05 | 90.000 | .435E+03 | 0.000 | 2172.750 | 0.000 | .00001 |
| 124. | 2175.635 | 0.000 | .41E-05 | 0.00 | .12E-06 | 90.000 | .47E-05 | 90.000 | .449E+03 | 0.000 | 2175.620 | 0.000 | .00001 |
| 125. | 2178.320 | 0.000 | .40E-05 | 0.00 | .11E-06 | 90.000 | .47E-05 | 90.000 | .463E+03 | 0.000 | 2178.304 | 0.000 | .00001 |
| 126. | 2180.802 | 0.000 | .40E-05 | 0.00 | .98E-07 | 90.000 | .46E-05 | 90.000 | .476E+03 | 0.000 | 2180.786 | 0.000 | .00001 |
| 127. | 2183.068 | 0.000 | .40E-05 | 0.00 | .87E-07 | 90.000 | .46E-05 | 90.000 | .488E+03 | 0.000 | 2183.050 | 0.000 | .00001 |
| 128. | 2185.103 | 0.000 | .40E-05 | 0.00 | .76E-07 | 90.000 | .46E-05 | 90.000 | .498E+03 | 0.000 | 2185.084 | 0.000 | .00001 |
| 129. | 2186.894 | 0.000 | .40E-05 | 0.00 | .66E-07 | 90.000 | .46E-05 | 90.000 | .508E+03 | 0.000 | 2186.875 | 0.000 | .00001 |
| 130. | 2188.430 | 0.000 | .40E-05 | 0.00 | .55E-07 | 90.000 | .46E-05 | 90.000 | .516E+03 | 0.000 | 2188.410 | 0.000 | .00001 |
| 131. | 2189.700 | 0.000 | .40E-05 | 0.00 | .44E-07 | 90.000 | .46E-05 | 90.000 | .523E+03 | 0.000 | 2189.680 | 0.000 | .00001 |
| 132. | 2190.697 | 0.000 | .40E-05 | 0.00 | .33E-07 | 90.000 | .46E-05 | 90.000 | .528E+03 | 0.000 | 2190.676 | 0.000 | .00001 |
| 133. | 2191.414 | 0.000 | .40E-05 | 0.00 | .22E-07 | 90.000 | .46E-05 | 90.000 | .532E+03 | 0.000 | 2191.393 | 0.000 | .00001 |
| 134. | 2191.846 | 0.000 | .40E-05 | 0.00 | .11E-07 | 90.000 | .46E-05 | 90.000 | .534E+03 | 0.000 | 2191.825 | 0.000 | .00001 |
| 135. | 2191.990 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .46E-05 | 90.000 | .535E+03 | 0.000 | 2191.969 | 0.000 | .00001 |
| 136. | 2191.846 | 0.000 | .40E-05 | 0.00 | .11E-07 | -90.000 | .46E-05 | 90.000 | .534E+03 | 0.000 | 2191.825 | 0.000 | .00001 |
| 137. | 2191.414 | 0.000 | .40E-05 | 0.00 | .22E-07 | -90.000 | .46E-05 | 90.000 | .532E+03 | 0.000 | 2191.393 | 0.000 | .00001 |
| 138. | 2190.697 | 0.000 | .40E-05 | 0.00 | .33E-07 | -90.000 | .46E-05 | 90.000 | .528E+03 | 0.000 | 2190.676 | 0.000 | .00001 |
| 139. | 2189.700 | 0.000 | .40E-05 | 0.00 | .44E-07 | -90.000 | .46E-05 | 90.000 | .523E+03 | 0.000 | 2189.680 | 0.000 | .00001 |
| 140. | 2188.430 | 0.000 | .40E-05 | 0.00 | .55E-07 | -90.000 | .46E-05 | 90.000 | .516E+03 | 0.000 | 2188.410 | 0.000 | .00001 |
| 141. | 2186.894 | 0.000 | .40E-05 | 0.00 | .66E-07 | -90.000 | .46E-05 | 90.000 | .508E+03 | 0.000 | 2186.875 | 0.000 | .00001 |
| 142. | 2185.103 | 0.000 | .40E-05 | 0.00 | .76E-07 | -90.000 | .46E-05 | 90.000 | .498E+03 | 0.000 | 2185.084 | 0.000 | .00001 |
| 143. | 2183.068 | 0.000 | .40E-05 | 0.00 | .87E-07 | -90.000 | .46E-05 | 90.000 | .486E+03 | 0.000 | 2183.050 | 0.000 | .00001 |
| 144. | 2180.802 | 0.000 | .40E-05 | 0.00 | .98E-07 | -90.000 | .46E-05 | 90.000 | .476E+03 | 0.000 | 2180.786 | 0.000 | .00001 |
| 145. | 2178.320 | 0.000 | .40E-05 | 0.00 | .11E-06 | -90.000 | .47E-05 | 90.000 | .463E+03 | 0.000 | 2178.304 | 0.000 | .00001 |
| 146. | 2175.635 | 0.000 | .41E-05 | 0.00 | .12E-06 | -90.000 | .47E-05 | 90.000 | .449E+03 | 0.000 | 2175.620 | 0.000 | .00001 |
| 147. | 2172.764 | 0.000 | .41E-05 | 0.00 | .13E-06 | -90.000 | .47E-05 | 90.000 | .435E+03 | 0.000 | 2172.750 | 0.000 | .00001 |
| 148. | 2169.724 | 0.000 | .41E-05 | 0.00 | .14E-06 | -90.000 | .47E-05 | 90.000 | .420E+03 | 0.000 | 2169.711 | 0.000 | .00001 |
| 149. | 2166.532 | 0.000 | .41E-05 | 0.00 | .15E-06 | -90.000 | .47E-05 | 90.000 | .404E+03 | 0.000 | 2166.520 | 0.000 | .00001 |

X-AXIS BOULE INDIUM ARSENIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2163.207 | 0.000 | .41E-05 | 0.00 | .16E-06 | -90.000 | .47E-05 | 90.000 | .388E+03 | 0.000 | 2163.196 | 0.000 | .00001 |
| 151. | 2159.765 | 0.000 | .41E-05 | 0.00 | .17E-06 | -90.000 | .47E-05 | 90.000 | .371E+03 | 0.000 | 2159.755 | 0.000 | 0.00000 |
| 152. | 2156.227 | 0.000 | .41E-05 | 0.00 | .17E-06 | -90.000 | .47E-05 | 90.000 | .354E+03 | 0.000 | 2156.218 | 0.000 | 0.00000 |
| 153. | 2152.610 | 0.000 | .41E-05 | 0.00 | .18E-06 | -90.000 | .47E-05 | 90.000 | .337E+03 | 0.000 | 2152.602 | 0.000 | 0.00000 |
| 154. | 2148.934 | 0.000 | .41E-05 | 0.00 | .18E-06 | -90.000 | .47E-05 | 90.000 | .320E+03 | 0.000 | 2148.926 | 0.000 | 0.00000 |
| 155. | 2145.216 | 0.000 | .41E-05 | 0.00 | .19E-06 | -90.000 | .47E-05 | 90.000 | .303E+03 | 0.000 | 2145.210 | 0.000 | 0.00000 |
| 156. | 2141.476 | 0.000 | .41E-05 | 0.00 | .19E-06 | -90.000 | .47E-05 | 90.000 | .286E+03 | 0.000 | 2141.470 | 0.000 | 0.00000 |
| 157. | 2137.732 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .270E+03 | 0.000 | 2137.726 | 0.000 | 0.00000 |
| 158. | 2134.001 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .253E+03 | 0.000 | 2133.996 | 0.000 | 0.00000 |
| 159. | 2130.302 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .237E+03 | 0.000 | 2130.297 | 0.000 | 0.00000 |
| 160. | 2126.650 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .222E+03 | 0.000 | 2126.647 | 0.000 | 0.00000 |
| 161. | 2123.065 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .206E+03 | 0.000 | 2123.061 | 0.000 | 0.00000 |
| 162. | 2119.560 | 0.000 | .41E-05 | 0.00 | .20E-06 | -90.000 | .48E-05 | 90.000 | .192E+03 | 0.000 | 2119.557 | 0.000 | 0.00000 |
| 163. | 2116.152 | 0.000 | .42E-05 | 0.00 | .19E-06 | -90.000 | .48E-05 | 90.000 | .177E+03 | 0.000 | 2116.149 | 0.000 | 0.00000 |
| 164. | 2112.855 | 0.000 | .42E-05 | 0.00 | .19E-06 | -90.000 | .48E-05 | 90.000 | .163E+03 | 0.000 | 2112.853 | 0.000 | 0.00000 |
| 165. | 2109.685 | 0.000 | .42E-05 | 0.00 | .18E-06 | -90.000 | .48E-05 | 90.000 | .150E+03 | 0.000 | 2109.683 | 0.000 | 0.00000 |
| 166. | 2106.653 | 0.000 | .42E-05 | 0.00 | .18E-06 | -90.000 | .49E-05 | 90.000 | .137E+03 | 0.000 | 2106.652 | 0.000 | 0.00000 |
| 167. | 2103.774 | 0.000 | .42E-05 | 0.00 | .17E-06 | -90.000 | .49E-05 | 90.000 | .125E+03 | 0.000 | 2103.773 | 0.000 | 0.00000 |
| 168. | 2101.059 | 0.000 | .42E-05 | 0.00 | .16E-06 | -90.000 | .49E-05 | 90.000 | .113E+03 | 0.000 | 2101.058 | 0.000 | 0.00000 |
| 169. | 2098.519 | 0.000 | .42E-05 | 0.00 | .15E-06 | -90.000 | .49E-05 | 90.000 | .102E+03 | 0.000 | 2098.518 | 0.000 | 0.00000 |
| 170. | 2096.165 | 0.000 | .42E-05 | 0.00 | .14E-06 | -90.000 | .49E-05 | 90.000 | .909E+02 | 0.000 | 2096.164 | 0.000 | 0.00000 |
| 171. | 2094.005 | 0.000 | .42E-05 | 0.00 | .13E-06 | -90.000 | .49E-05 | 90.000 | .804E+02 | 0.000 | 2094.005 | 0.000 | 0.00000 |
| 172. | 2092.050 | 0.000 | .42E-05 | 0.00 | .12E-06 | -90.000 | .49E-05 | 90.000 | .704E+02 | 0.000 | 2092.050 | 0.000 | 0.00000 |
| 173. | 2090.306 | 0.000 | .42E-05 | 0.00 | .10E-06 | -90.000 | .49E-05 | 90.000 | .607E+02 | 0.000 | 2090.306 | 0.000 | 0.00000 |
| 174. | 2088.781 | 0.000 | .42E-05 | 0.00 | .90E-07 | -90.000 | .49E-05 | 90.000 | .514E+02 | 0.000 | 2088.781 | 0.000 | 0.00000 |
| 175. | 2087.480 | 0.000 | .42E-05 | 0.00 | .76E-07 | -90.000 | .49E-05 | 90.000 | .424E+02 | 0.000 | 2087.480 | 0.000 | 0.00000 |
| 176. | 2086.409 | 0.000 | .42E-05 | 0.00 | .61E-07 | -90.000 | .49E-05 | 90.000 | .336E+02 | 0.000 | 2086.408 | 0.000 | 0.00000 |
| 177. | 2085.571 | 0.000 | .42E-05 | 0.00 | .46E-07 | -90.000 | .49E-05 | 90.000 | .250E+02 | 0.000 | 2085.571 | 0.000 | 0.00000 |
| 178. | 2084.970 | 0.000 | .42E-05 | 0.00 | .31E-07 | -90.000 | .49E-05 | 90.000 | .166E+02 | 0.000 | 2084.970 | 0.000 | 0.00000 |
| 179. | 2084.609 | 0.000 | .42E-05 | 0.00 | .15E-07 | -90.000 | .49E-05 | 90.000 | .827E+01 | 0.000 | 2084.609 | 0.000 | 0.00000 |
| 180. | 2084.488 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.000 | 0. | 0.000 | 2084.488 | 0.000 | 0.00000 |

Z-CUT LEAD SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 1710.807 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 |
| 1. | 1710.763 | -.165 | .19E-05 | 0.00 | .39E-07 | 0.000 | .39E-05 | 90.000 |
| 2. | 1710.637 | -.315 | .19E-05 | 0.00 | .80E-07 | 0.000 | .39E-05 | 90.000 |
| 3. | 1710.439 | -.442 | .19E-05 | 0.00 | .12E-06 | 0.000 | .39E-05 | 90.000 |
| 4. | 1710.182 | -.542 | .19E-05 | 0.00 | .17E-06 | 0.000 | .39E-05 | 90.000 |
| 5. | 1709.878 | -.621 | .19E-05 | 0.00 | .21E-06 | 0.000 | .39E-05 | 90.000 |
| 6. | 1709.538 | -.680 | .19E-05 | 0.00 | .25E-06 | 0.000 | .39E-05 | 90.000 |
| 7. | 1709.171 | -.726 | .19E-05 | 0.00 | .29E-06 | 0.000 | .39E-05 | 90.000 |
| 8. | 1708.784 | -.761 | .19E-05 | 0.00 | .32E-06 | 0.000 | .39E-05 | 90.000 |
| 9. | 1708.381 | -.787 | .20E-05 | 0.00 | .35E-06 | 0.000 | .39E-05 | 90.000 |
| 10. | 1707.966 | -.806 | .20E-05 | 0.00 | .38E-06 | 0.000 | .39E-05 | 90.000 |
| 11. | 1707.544 | -.819 | .20E-05 | 0.00 | .40E-06 | 0.000 | .39E-05 | 90.000 |
| 12. | 1707.116 | -.827 | .20E-05 | 0.00 | .42E-06 | 0.000 | .39E-05 | 90.000 |
| 13. | 1706.685 | -.830 | .20E-05 | 0.00 | .43E-06 | 0.000 | .40E-05 | 90.000 |
| 14. | 1706.253 | -.831 | .20E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 15. | 1705.822 | -.827 | .20E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 16. | 1705.393 | -.821 | .20E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 17. | 1704.969 | -.812 | .20E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 18. | 1704.550 | -.801 | .21E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 19. | 1704.138 | -.787 | .21E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 20. | 1703.733 | -.772 | .21E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 21. | 1703.337 | -.754 | .21E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 22. | 1702.950 | -.735 | .21E-05 | 0.00 | .43E-06 | 0.000 | .40E-05 | 90.000 |
| 23. | 1702.575 | -.714 | .21E-05 | 0.00 | .42E-06 | 0.000 | .40E-05 | 90.000 |
| 24. | 1702.210 | -.691 | .21E-05 | 0.00 | .41E-06 | 0.000 | .40E-05 | 90.000 |
| 25. | 1701.858 | -.667 | .22E-05 | 0.00 | .39E-06 | 0.000 | .40E-05 | 90.000 |
| 26. | 1701.519 | -.642 | .22E-05 | 0.00 | .38E-06 | 0.000 | .41E-05 | 90.000 |
| 27. | 1701.193 | -.615 | .22E-05 | 0.00 | .37E-06 | 0.000 | .41E-05 | 90.000 |
| 28. | 1700.881 | -.588 | .22E-05 | 0.00 | .35E-06 | 0.000 | .41E-05 | 90.000 |
| 29. | 1700.584 | -.559 | .22E-05 | 0.00 | .33E-06 | 0.000 | .41E-05 | 90.000 |
| 30. | 1700.302 | -.529 | .22E-05 | 0.00 | .32E-06 | 0.000 | .41E-05 | 90.000 |
| 31. | 1700.037 | -.498 | .22E-05 | 0.00 | .30E-06 | 0.000 | .41E-05 | 90.000 |
| 32. | 1699.787 | -.466 | .22E-05 | 0.00 | .28E-06 | 0.000 | .41E-05 | 90.000 |
| 33. | 1699.554 | -.433 | .22E-05 | 0.00 | .26E-06 | 0.000 | .41E-05 | 90.000 |
| 34. | 1699.339 | -.400 | .22E-05 | 0.00 | .24E-06 | 0.000 | .41E-05 | 90.000 |
| 35. | 1699.141 | -.366 | .22E-05 | 0.00 | .22E-06 | 0.000 | .41E-05 | 90.000 |
| 36. | 1698.960 | -.331 | .23E-05 | 0.00 | .20E-06 | 0.000 | .41E-05 | 90.000 |
| 37. | 1698.798 | -.295 | .23E-05 | 0.00 | .18E-06 | 0.000 | .41E-05 | 90.000 |
| 38. | 1698.655 | -.260 | .23E-05 | 0.00 | .16E-06 | 0.000 | .41E-05 | 90.000 |
| 39. | 1698.530 | -.223 | .23E-05 | 0.00 | .14E-06 | 0.000 | .41E-05 | 90.000 |
| 40. | 1698.424 | -.187 | .23E-05 | 0.00 | .11E-06 | 0.000 | .41E-05 | 90.000 |
| 41. | 1698.336 | -.150 | .23E-05 | 0.00 | .90E-07 | 0.000 | .41E-05 | 90.000 |
| 42. | 1698.269 | -.113 | .23E-05 | 0.00 | .68E-07 | 0.000 | .41E-05 | 90.000 |
| 43. | 1698.220 | -.075 | .23E-05 | 0.00 | .45E-07 | 0.000 | .41E-05 | 90.000 |
| 44. | 1698.191 | -.038 | .23E-05 | 0.00 | .23E-07 | 0.000 | .41E-05 | 90.000 |
| 45. | 1698.181 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .41E-05 | 90.000 |
| 46. | 1698.191 | .038 | .23E-05 | 0.00 | .23E-07 | 180.000 | .41E-05 | 90.000 |
| 47. | 1698.220 | .075 | .23E-05 | 0.00 | .45E-07 | 180.000 | .41E-05 | 90.000 |
| 48. | 1698.269 | .113 | .23E-05 | 0.00 | .68E-07 | 180.000 | .41E-05 | 90.000 |
| 49. | 1698.336 | .150 | .23E-05 | 0.00 | .90E-07 | 180.000 | .41E-05 | 90.000 |

Z-CUT LEAD SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 1698.424 | .187 | .23E-05 | 0.00 | .11E-06 | 180.000 | .41E-05 | 90.000 |
| 51. | 1698.530 | .223 | .23E-05 | 0.00 | .14E-06 | 180.000 | .41E-05 | 90.000 |
| 52. | 1698.655 | .260 | .23E-05 | 0.00 | .16E-06 | 180.000 | .41E-05 | 90.000 |
| 53. | 1698.798 | .295 | .23E-05 | 0.00 | .18E-06 | 180.000 | .41E-05 | 90.000 |
| 54. | 1698.960 | .331 | .23E-05 | 0.00 | .20E-06 | 180.000 | .41E-05 | 90.000 |
| 55. | 1699.141 | .366 | .22E-05 | 0.00 | .22E-06 | 180.000 | .41E-05 | 90.000 |
| 56. | 1699.339 | .400 | .22E-05 | 0.00 | .24E-06 | 180.000 | .41E-05 | 90.000 |
| 57. | 1699.554 | .433 | .22E-05 | 0.00 | .26E-06 | 180.000 | .41E-05 | 90.000 |
| 58. | 1699.787 | .466 | .22E-05 | 0.00 | .28E-06 | 180.000 | .41E-05 | 90.000 |
| 59. | 1700.037 | .498 | .22E-05 | 0.00 | .30E-06 | 180.000 | .41E-05 | 90.000 |
| 60. | 1700.302 | .529 | .22E-05 | 0.00 | .32E-06 | 180.000 | .41E-05 | 90.000 |
| 61. | 1700.584 | .559 | .22E-05 | 0.00 | .33E-06 | 180.000 | .41E-05 | 90.000 |
| 62. | 1700.881 | .588 | .22E-05 | 0.00 | .35E-06 | 180.000 | .41E-05 | 90.000 |
| 63. | 1701.193 | .615 | .22E-05 | 0.00 | .37E-06 | 180.000 | .41E-05 | 90.000 |
| 64. | 1701.519 | .642 | .22E-05 | 0.00 | .38E-06 | 180.000 | .41E-05 | 90.000 |
| 65. | 1701.858 | .667 | .22E-05 | 0.00 | .39E-06 | 180.000 | .40E-05 | 90.000 |
| 66. | 1702.210 | .691 | .21E-05 | 0.00 | .41E-06 | 180.000 | .40E-05 | 90.000 |
| 67. | 1702.575 | .714 | .21E-05 | 0.00 | .42E-06 | 180.000 | .40E-05 | 90.000 |
| 68. | 1702.950 | .735 | .21E-05 | 0.00 | .43E-06 | 180.000 | .40E-05 | 90.000 |
| 69. | 1703.337 | .754 | .21E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 70. | 1703.733 | .772 | .21E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 71. | 1704.138 | .787 | .21E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 72. | 1704.550 | .801 | .21E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 73. | 1704.969 | .812 | .20E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 74. | 1705.393 | .821 | .20E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 75. | 1705.822 | .827 | .20E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 76. | 1706.253 | .831 | .20E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 77. | 1706.685 | .830 | .20E-05 | 0.00 | .43E-06 | 180.000 | .40E-05 | 90.000 |
| 78. | 1707.116 | .827 | .20E-05 | 0.00 | .42E-06 | 180.000 | .39E-05 | 90.000 |
| 79. | 1707.544 | .819 | .20E-05 | 0.00 | .40E-06 | 180.000 | .39E-05 | 90.000 |
| 80. | 1707.966 | .806 | .20E-05 | 0.00 | .38E-06 | 180.000 | .39E-05 | 90.000 |
| 81. | 1708.381 | .787 | .20E-05 | 0.00 | .35E-06 | 180.000 | .39E-05 | 90.000 |
| 82. | 1708.784 | .761 | .19E-05 | 0.00 | .32E-06 | 180.000 | .39E-05 | 90.000 |
| 83. | 1709.171 | .726 | .19E-05 | 0.00 | .29E-06 | 180.000 | .39E-05 | 90.000 |
| 84. | 1709.538 | .680 | .19E-05 | 0.00 | .25E-06 | 180.000 | .39E-05 | 90.000 |
| 85. | 1709.878 | .621 | .19E-05 | 0.00 | .21E-06 | 180.000 | .39E-05 | 90.000 |
| 86. | 1710.182 | .542 | .19E-05 | 0.00 | .17E-06 | 180.000 | .39E-05 | 90.000 |
| 87. | 1710.439 | .442 | .19E-05 | 0.00 | .12E-06 | 180.000 | .39E-05 | 90.000 |
| 88. | 1710.637 | .315 | .19E-05 | 0.00 | .80E-07 | 180.000 | .39E-05 | 90.000 |
| 89. | 1710.763 | .165 | .19E-05 | 0.00 | .39E-07 | 180.000 | .39E-05 | 90.000 |
| 90. | 1710.807 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 |
| 91. | 1710.763 | -.165 | .19E-05 | 0.00 | .39E-07 | 0.000 | .39E-05 | 90.000 |
| 92. | 1710.637 | -.315 | .19E-05 | 0.00 | .80E-07 | 0.000 | .39E-05 | 90.000 |
| 93. | 1710.439 | -.442 | .19E-05 | 0.00 | .12E-06 | 0.000 | .39E-05 | 90.000 |
| 94. | 1710.182 | -.542 | .19E-05 | 0.00 | .17E-06 | 0.000 | .39E-05 | 90.000 |
| 95. | 1709.878 | -.621 | .19E-05 | 0.00 | .21E-06 | 0.000 | .39E-05 | 90.000 |
| 96. | 1709.538 | -.680 | .19E-05 | 0.00 | .25E-06 | 0.000 | .39E-05 | 90.000 |
| 97. | 1709.171 | -.726 | .19E-05 | 0.00 | .29E-06 | 0.000 | .39E-05 | 90.000 |
| 98. | 1708.784 | -.761 | .19E-05 | 0.00 | .32E-06 | 0.000 | .39E-05 | 90.000 |
| 99. | 1708.381 | -.787 | .20E-05 | 0.00 | .35E-06 | 0.000 | .39E-05 | 90.000 |

Z-CUT LEAD SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 1707.966 | -.806 | .20E-05 | 0.00 | .38E-06 | 0.000 | .39E-05 | 90.000 |
| 101. | 1707.544 | -.819 | .20E-05 | 0.00 | .40E-06 | 0.000 | .39E-05 | 90.000 |
| 102. | 1707.116 | -.827 | .20E-05 | 0.00 | .42E-06 | 0.000 | .39E-05 | 90.000 |
| 103. | 1706.685 | -.830 | .20E-05 | 0.00 | .43E-06 | 0.000 | .40E-05 | 90.000 |
| 104. | 1706.253 | -.831 | .20E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 105. | 1705.822 | -.827 | .20E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 106. | 1705.393 | -.821 | .20E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 107. | 1704.969 | -.812 | .20E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 108. | 1704.550 | -.801 | .21E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 109. | 1704.138 | -.787 | .21E-05 | 0.00 | .45E-06 | 0.000 | .40E-05 | 90.000 |
| 110. | 1703.733 | -.772 | .21E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 111. | 1703.337 | -.754 | .21E-05 | 0.00 | .44E-06 | 0.000 | .40E-05 | 90.000 |
| 112. | 1702.950 | -.735 | .21E-05 | 0.00 | .43E-06 | 0.000 | .40E-05 | 90.000 |
| 113. | 1702.575 | -.714 | .21E-05 | 0.00 | .42E-06 | 0.000 | .40E-05 | 90.000 |
| 114. | 1702.210 | -.691 | .21E-05 | 0.00 | .41E-06 | 0.000 | .40E-05 | 90.000 |
| 115. | 1701.858 | -.667 | .22E-05 | 0.00 | .39E-06 | 0.000 | .40E-05 | 90.000 |
| 116. | 1701.519 | -.642 | .22E-05 | 0.00 | .38E-06 | 0.000 | .41E-05 | 90.000 |
| 117. | 1701.193 | -.615 | .22E-05 | 0.00 | .37E-06 | 0.000 | .41E-05 | 90.000 |
| 118. | 1700.881 | -.588 | .22E-05 | 0.00 | .35E-06 | 0.000 | .41E-05 | 90.000 |
| 119. | 1700.584 | -.559 | .22E-05 | 0.00 | .33E-06 | 0.000 | .41E-05 | 90.000 |
| 120. | 1700.302 | -.529 | .22E-05 | 0.00 | .32E-06 | 0.000 | .41E-05 | 90.000 |
| 121. | 1700.037 | -.498 | .22E-05 | 0.00 | .30E-06 | 0.000 | .41E-05 | 90.000 |
| 122. | 1699.787 | -.466 | .22E-05 | 0.00 | .28E-06 | 0.000 | .41E-05 | 90.000 |
| 123. | 1699.554 | -.433 | .22E-05 | 0.00 | .26E-06 | 0.000 | .41E-05 | 90.000 |
| 124. | 1699.339 | -.400 | .22E-05 | 0.00 | .24E-06 | 0.000 | .41E-05 | 90.000 |
| 125. | 1699.141 | -.366 | .22E-05 | 0.00 | .22E-06 | 0.000 | .41E-05 | 90.000 |
| 126. | 1698.960 | -.331 | .23E-05 | 0.00 | .20E-06 | 0.000 | .41E-05 | 90.000 |
| 127. | 1698.798 | -.295 | .23E-05 | 0.00 | .18E-06 | 0.000 | .41E-05 | 90.000 |
| 128. | 1698.655 | -.260 | .23E-05 | 0.00 | .16E-06 | 0.000 | .41E-05 | 90.000 |
| 129. | 1698.530 | -.223 | .23E-05 | 0.00 | .14E-06 | 0.000 | .41E-05 | 90.000 |
| 130. | 1698.424 | -.187 | .23E-05 | 0.00 | .11E-06 | 0.000 | .41E-05 | 90.000 |
| 131. | 1698.336 | -.150 | .23E-05 | 0.00 | .90E-07 | 0.000 | .41E-05 | 90.000 |
| 132. | 1698.269 | -.113 | .23E-05 | 0.00 | .68E-07 | 0.000 | .41E-05 | 90.000 |
| 133. | 1698.220 | -.075 | .23E-05 | 0.00 | .45E-07 | 0.000 | .41E-05 | 90.000 |
| 134. | 1698.191 | -.038 | .23E-05 | 0.00 | .23E-07 | 0.000 | .41E-05 | 90.000 |
| 135. | 1698.181 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .41E-05 | 90.000 |
| 136. | 1698.191 | .038 | .23E-05 | 0.00 | .23E-07 | 180.000 | .41E-05 | 90.000 |
| 137. | 1698.220 | .075 | .23E-05 | 0.00 | .45E-07 | 180.000 | .41E-05 | 90.000 |
| 138. | 1698.269 | .113 | .23E-05 | 0.00 | .68E-07 | 180.000 | .41E-05 | 90.000 |
| 139. | 1698.336 | .150 | .23E-05 | 0.00 | .90E-07 | 180.000 | .41E-05 | 90.000 |
| 140. | 1698.424 | .187 | .23E-05 | 0.00 | .11E-06 | 180.000 | .41E-05 | 90.000 |
| 141. | 1698.530 | .223 | .23E-05 | 0.00 | .14E-06 | 180.000 | .41E-05 | 90.000 |
| 142. | 1698.655 | .260 | .23E-05 | 0.00 | .16E-06 | 180.000 | .41E-05 | 90.000 |
| 143. | 1698.798 | .295 | .23E-05 | 0.00 | .18E-06 | 180.000 | .41E-05 | 90.000 |
| 144. | 1698.960 | .331 | .23E-05 | 0.00 | .20E-06 | 180.000 | .41E-05 | 90.000 |
| 145. | 1699.141 | .366 | .22E-05 | 0.00 | .22E-06 | 180.000 | .41E-05 | 90.000 |
| 146. | 1699.339 | .400 | .22E-05 | 0.00 | .24E-06 | 180.000 | .41E-05 | 90.000 |
| 147. | 1699.554 | .433 | .22E-05 | 0.00 | .26E-06 | 180.000 | .41E-05 | 90.000 |
| 148. | 1699.787 | .466 | .22E-05 | 0.00 | .28E-06 | 180.000 | .41E-05 | 90.000 |
| 149. | 1700.037 | .498 | .22E-05 | 0.00 | .30E-06 | 180.000 | .41E-05 | 90.000 |

Z-CUT LEAD SULPHIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 1700.302 | .529 | .22E-05 | 0.00 | .32E-06 | 180.000 | .41E-05 | 90.000 |
| 151. | 1700.584 | .559 | .22E-05 | 0.00 | .33E-06 | 180.000 | .41E-05 | 90.000 |
| 152. | 1700.881 | .588 | .22E-05 | 0.00 | .35E-06 | 180.000 | .41E-05 | 90.000 |
| 153. | 1701.193 | .615 | .22E-05 | 0.00 | .37E-06 | 180.000 | .41E-05 | 90.000 |
| 154. | 1701.519 | .642 | .22E-05 | 0.00 | .38E-06 | 180.000 | .41E-05 | 90.000 |
| 155. | 1701.858 | .667 | .22E-05 | 0.00 | .39E-06 | 180.000 | .40E-05 | 90.000 |
| 156. | 1702.210 | .691 | .21E-05 | 0.00 | .41E-06 | 180.000 | .40E-05 | 90.000 |
| 157. | 1702.575 | .714 | .21E-05 | 0.00 | .42E-06 | 180.000 | .40E-05 | 90.000 |
| 158. | 1702.950 | .735 | .21E-05 | 0.00 | .43E-06 | 180.000 | .40E-05 | 90.000 |
| 159. | 1703.337 | .754 | .21E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 160. | 1703.733 | .772 | .21E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 161. | 1704.138 | .787 | .21E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 162. | 1704.550 | .801 | .21E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 163. | 1704.969 | .812 | .20E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 164. | 1705.393 | .821 | .20E-05 | 0.00 | .45E-06 | 180.000 | .40E-05 | 90.000 |
| 165. | 1705.822 | .827 | .20E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 166. | 1706.253 | .831 | .20E-05 | 0.00 | .44E-06 | 180.000 | .40E-05 | 90.000 |
| 167. | 1706.685 | .830 | .20E-05 | 0.00 | .43E-06 | 180.000 | .40E-05 | 90.000 |
| 168. | 1707.116 | .827 | .20E-05 | 0.00 | .42E-06 | 180.000 | .39E-05 | 90.000 |
| 169. | 1707.544 | .819 | .20E-05 | 0.00 | .40E-06 | 180.000 | .39E-05 | 90.000 |
| 170. | 1707.966 | .806 | .20E-05 | 0.00 | .38E-06 | 180.000 | .39E-05 | 90.000 |
| 171. | 1708.381 | .787 | .20E-05 | 0.00 | .35E-06 | 180.000 | .39E-05 | 90.000 |
| 172. | 1708.784 | .761 | .19E-05 | 0.00 | .32E-06 | 180.000 | .39E-05 | 90.000 |
| 173. | 1709.171 | .726 | .19E-05 | 0.00 | .29E-06 | 180.000 | .39E-05 | 90.000 |
| 174. | 1709.538 | .680 | .19E-05 | 0.00 | .25E-06 | 180.000 | .39E-05 | 90.000 |
| 175. | 1709.878 | .621 | .19E-05 | 0.00 | .21E-06 | 180.000 | .39E-05 | 90.000 |
| 176. | 1710.182 | .542 | .19E-05 | 0.00 | .17E-06 | 180.000 | .39E-05 | 90.000 |
| 177. | 1710.439 | .442 | .19E-05 | 0.00 | .12E-06 | 180.000 | .39E-05 | 90.000 |
| 178. | 1710.637 | .315 | .19E-05 | 0.00 | .80E-07 | 180.000 | .39E-05 | 90.000 |
| 179. | 1710.763 | .165 | .19E-05 | 0.00 | .39E-07 | 180.000 | .39E-05 | 90.000 |
| 180. | 1710.807 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 |

X-CUT LITHIUM NIOBATE(WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3747.300 | 4.015 | .21E-05 | 0.00 | .41E-06 | -180.000 | .31E-05 | 90.000 | .733E+04 | 0.000 | 3601.301 | 5.025 | .01755 |
| 1. | 3751.519 | 3.780 | .21E-05 | 0.00 | .42E-06 | 180.000 | .31E-05 | 90.000 | .720E+04 | 0.000 | 3686.080 | 4.892 | .01723 |
| 2. | 3755.710 | 3.539 | .21E-05 | 0.00 | .43E-06 | 180.000 | .31E-05 | 90.000 | .720E+04 | 0.000 | 3692.313 | 4.753 | .01688 |
| 3. | 3759.025 | 3.292 | .21E-05 | 0.00 | .43E-06 | 180.000 | .31E-05 | 90.000 | .713E+04 | 0.000 | 3697.594 | 4.608 | .01650 |
| 4. | 3763.295 | 3.038 | .21E-05 | 0.00 | .44E-06 | 180.000 | .31E-05 | 90.000 | .707E+04 | 0.000 | 3702.714 | 4.457 | .01609 |
| 5. | 3766.593 | 2.777 | .22E-05 | 0.00 | .45E-06 | -180.000 | .31E-05 | 90.000 | .699E+04 | 0.000 | 3707.605 | 4.297 | .01564 |
| 6. | 3769.031 | 2.511 | .22E-05 | 0.00 | .46E-06 | 180.000 | .31E-05 | 90.000 | .691E+04 | 0.000 | 3712.436 | 4.128 | .01517 |
| 7. | 3772.300 | 2.238 | .22E-05 | 0.00 | .47E-06 | 180.000 | .31E-05 | 90.000 | .683E+04 | 0.000 | 3717.014 | 3.948 | .01467 |
| 8. | 3774.773 | 1.958 | .22E-05 | 0.00 | .48E-06 | 180.000 | .31E-05 | 90.000 | .674E+04 | 0.000 | 3721.389 | 3.755 | .01414 |
| 9. | 3776.802 | 1.671 | .22E-05 | 0.00 | .49E-06 | -180.000 | .31E-05 | 90.000 | .666E+04 | 0.000 | 3725.534 | 3.548 | .01359 |
| 10. | 3778.617 | 1.378 | .22E-05 | 0.00 | .50E-06 | -180.000 | .31E-05 | 90.000 | .656E+04 | 0.000 | 3729.441 | 3.324 | .01301 |
| 11. | 3780.031 | 1.077 | .22E-05 | 0.00 | .52E-06 | 180.000 | .31E-05 | 90.000 | .646E+04 | 0.000 | 3733.087 | 3.082 | .01242 |
| 12. | 3781.094 | .768 | .22E-05 | 0.00 | .53E-06 | 180.000 | .31E-05 | 90.000 | .635E+04 | 0.000 | 3736.450 | 2.820 | .01181 |
| 13. | 3781.797 | .451 | .22E-05 | 0.00 | .55E-06 | 180.000 | .31E-05 | 90.000 | .624E+04 | 0.000 | 3739.503 | 2.536 | .01118 |
| 14. | 3782.130 | .125 | .22E-05 | 0.00 | .56E-06 | 180.000 | .31E-05 | 90.000 | .612E+04 | 0.000 | 3742.222 | 2.229 | .01055 |
| 15. | 3782.082 | -.209 | .22E-05 | 0.00 | .58E-06 | -180.000 | .31E-05 | 90.000 | .599E+04 | 0.000 | 3744.577 | 1.897 | .00992 |
| 16. | 3781.645 | -.552 | .22E-05 | 0.00 | .59E-06 | 180.000 | .31E-05 | 90.000 | .587E+04 | 0.000 | 3746.540 | 1.538 | .00928 |
| 17. | 3780.806 | -.905 | .23E-05 | 0.00 | .63E-06 | -180.000 | .32E-05 | 90.000 | .573E+04 | 0.000 | 3748.080 | 1.154 | .00866 |
| 18. | 3779.550 | -1.267 | .23E-05 | 0.00 | .65E-06 | 180.000 | .32E-05 | 90.000 | .559E+04 | 0.000 | 3749.166 | .744 | .00804 |
| 19. | 3777.865 | -1.637 | .23E-05 | 0.00 | .68E-06 | 180.000 | .32E-05 | 90.000 | .545E+04 | 0.000 | 3749.770 | .309 | .00744 |
| 20. | 3775.765 | -2.014 | .23E-05 | 0.00 | .71E-06 | 180.000 | .32E-05 | 90.000 | .531E+04 | 0.000 | 3749.864 | -.148 | .00687 |
| 21. | 3773.248 | -2.397 | .23E-05 | 0.00 | .74E-06 | 180.000 | .32E-05 | 90.000 | .516E+04 | 0.000 | 3749.424 | -.625 | .00631 |
| 22. | 3770.271 | -2.783 | .23E-05 | 0.00 | .77E-06 | 180.000 | .32E-05 | 90.000 | .501E+04 | 0.000 | 3748.432 | -1.115 | .00579 |
| 23. | 3766.820 | -3.170 | .23E-05 | 0.00 | .80E-06 | -180.000 | .32E-05 | 90.000 | .486E+04 | 0.000 | 3746.874 | -1.615 | .00530 |
| 24. | 3762.989 | -3.555 | .23E-05 | 0.00 | .83E-06 | -180.000 | .32E-05 | 90.000 | .471E+04 | 0.000 | 3744.743 | -2.117 | .00485 |
| 25. | 3758.845 | -3.933 | .23E-05 | 0.00 | .87E-06 | 180.000 | .32E-05 | 90.000 | .457E+04 | 0.000 | 3742.043 | -2.614 | .00443 |
| 26. | 3753.973 | -4.301 | .23E-05 | 0.00 | .90E-06 | -180.000 | .32E-05 | 90.000 | .443E+04 | 0.000 | 3738.784 | -3.100 | .00405 |
| 27. | 3748.843 | -4.655 | .23E-05 | 0.00 | .93E-06 | -180.000 | .32E-05 | 90.000 | .429E+04 | 0.000 | 3734.983 | -3.567 | .00370 |
| 28. | 3743.324 | -4.992 | .23E-05 | 0.00 | .97E-06 | 180.000 | .32E-05 | 90.000 | .416E+04 | 0.000 | 3730.666 | -4.009 | .00338 |
| 29. | 3737.437 | -5.309 | .23E-05 | 0.00 | .10E-05 | 180.000 | .32E-05 | 90.000 | .403E+04 | 0.000 | 3725.867 | -4.422 | .00310 |
| 30. | 3731.210 | -5.603 | .24E-05 | 0.00 | .10E-05 | 180.000 | .32E-05 | 90.000 | .390E+04 | 0.000 | 3720.621 | -4.802 | .00284 |
| 31. | 3724.670 | -5.872 | .24E-05 | 0.00 | .11E-05 | 180.000 | .32E-05 | 90.000 | .378E+04 | 0.000 | 3714.970 | -5.146 | .00260 |
| 32. | 3717.848 | -6.117 | .24E-05 | 0.00 | .11E-05 | 180.000 | .32E-05 | 90.000 | .367E+04 | 0.000 | 3708.956 | -5.454 | .00239 |
| 33. | 3710.773 | -6.335 | .24E-05 | 0.00 | .11E-05 | -180.000 | .32E-05 | 90.000 | .355E+04 | 0.000 | 3702.625 | -5.725 | .00220 |
| 34. | 3703.477 | -6.528 | .24E-05 | 0.00 | .11E-05 | 180.000 | .32E-05 | 90.000 | .344E+04 | 0.000 | 3696.012 | -5.961 | .00202 |
| 35. | 3695.990 | -6.695 | .24E-05 | 0.00 | .12E-05 | -180.000 | .32E-05 | 90.000 | .332E+04 | 0.000 | 3689.165 | -6.163 | .00185 |
| 36. | 3688.342 | -6.839 | .24E-05 | 0.00 | .12E-05 | -180.000 | .32E-05 | 90.000 | .320E+04 | 0.000 | 3682.120 | -6.333 | .00169 |
| 37. | 3680.559 | -6.959 | .24E-05 | 0.00 | .12E-05 | -180.000 | .32E-05 | 90.000 | .307E+04 | 0.000 | 3674.915 | -6.473 | .00153 |
| 38. | 3672.670 | -7.056 | .24E-05 | 0.00 | .12E-05 | 180.000 | .32E-05 | 90.000 | .294E+04 | 0.000 | 3667.576 | -6.586 | .00139 |
| 39. | 3664.699 | -7.132 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .281E+04 | 0.000 | 3660.141 | -6.675 | .00124 |
| 40. | 3656.672 | -7.187 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .268E+04 | 0.000 | 3652.634 | -6.741 | .00110 |
| 41. | 3648.612 | -7.221 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .255E+04 | 0.000 | 3645.079 | -6.786 | .00097 |
| 42. | 3640.541 | -7.237 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .243E+04 | 0.000 | 3637.499 | -6.814 | .00084 |
| 43. | 3632.482 | -7.233 | .24E-05 | 0.00 | .13E-05 | 180.000 | .32E-05 | 90.000 | .216E+04 | 0.000 | 3629.914 | -6.824 | .00071 |
| 44. | 3624.456 | -7.211 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .197E+04 | 0.000 | 3622.341 | -6.820 | .00058 |
| 45. | 3616.483 | -7.170 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .177E+04 | 0.000 | 3614.797 | -6.802 | .00047 |
| 46. | 3608.583 | -7.111 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .155E+04 | 0.000 | 3607.295 | -6.772 | .00036 |
| 47. | 3600.776 | -7.033 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .132E+04 | 0.000 | 3599.848 | -6.731 | .00026 |
| 48. | 3593.082 | -6.938 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .108E+04 | 0.000 | 3592.468 | -6.680 | .00017 |
| 49. | 3585.519 | -6.826 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .824E+03 | 0.000 | 3585.165 | -6.619 | .00010 |

X-CUT LITHIUM NIOBATE(WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3578.107 | -0.095 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .253E+03 | 0.000 | 3577.949 | -6.556 | .00004 |
| 51. | 3570.804 | -0.247 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .268E+03 | 0.000 | 3570.827 | -6.474 | .00001 |
| 52. | 3563.807 | -0.382 | .24E-05 | 0.00 | .14E-05 | 180.000 | .32E-05 | 90.000 | .303E+02 | -180.000 | 3563.807 | -0.391 | 0.00000 |
| 53. | 3556.955 | -0.201 | .24E-05 | 0.00 | .14E-05 | 180.000 | .31E-05 | 90.000 | .342E+03 | -180.000 | 3556.095 | -6.302 | .00002 |
| 54. | 3550.323 | -0.002 | .24E-05 | 0.00 | .14E-05 | -180.000 | .31E-05 | 90.000 | .606E+03 | 180.000 | 3550.098 | -6.207 | .00006 |
| 55. | 3543.929 | -5.788 | .23E-05 | 0.00 | .14E-05 | -180.000 | .31E-05 | 90.000 | .100E+04 | 180.000 | 3543.419 | -6.107 | .00014 |
| 56. | 3537.789 | -5.559 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .135E+04 | 180.000 | 3536.865 | -6.003 | .00026 |
| 57. | 3531.916 | -5.315 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .171E+04 | -180.000 | 3530.437 | -5.896 | .00042 |
| 58. | 3526.324 | -5.057 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .209E+04 | -180.000 | 3524.140 | -5.785 | .00062 |
| 59. | 3521.027 | -4.786 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .247E+04 | -180.000 | 3517.975 | -5.672 | .00087 |
| 60. | 3516.036 | -4.504 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .286E+04 | 180.000 | 3511.944 | -5.557 | .00116 |
| 61. | 3511.362 | -4.212 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .326E+04 | 180.000 | 3506.047 | -5.442 | .00151 |
| 62. | 3507.013 | -3.910 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .367E+04 | 180.000 | 3500.285 | -5.325 | .00192 |
| 63. | 3502.996 | -3.601 | .22E-05 | 0.00 | .15E-05 | 180.000 | .30E-05 | 90.000 | .409E+04 | -180.000 | 3494.658 | -5.210 | .00238 |
| 64. | 3499.319 | -3.287 | .22E-05 | 0.00 | .15E-05 | -180.000 | .29E-05 | 90.000 | .451E+04 | 180.000 | 3489.163 | -5.095 | .00290 |
| 65. | 3495.983 | -2.966 | .22E-05 | 0.00 | .15E-05 | -180.000 | .29E-05 | 90.000 | .495E+04 | -180.000 | 3483.799 | -4.981 | .00349 |
| 66. | 3492.992 | -2.647 | .22E-05 | 0.00 | .15E-05 | 180.000 | .29E-05 | 90.000 | .538E+04 | 180.000 | 3478.564 | -4.869 | .00413 |
| 67. | 3490.345 | -2.326 | .21E-05 | 0.00 | .15E-05 | -180.000 | .29E-05 | 90.000 | .582E+04 | -180.000 | 3473.455 | -4.759 | .00484 |
| 68. | 3488.041 | -2.008 | .21E-05 | 0.00 | .15E-05 | 180.000 | .28E-05 | 90.000 | .627E+04 | 180.000 | 3468.469 | -4.650 | .00561 |
| 69. | 3486.075 | -1.694 | .21E-05 | 0.00 | .15E-05 | 180.000 | .28E-05 | 90.000 | .672E+04 | -180.000 | 3463.606 | -4.543 | .00645 |
| 70. | 3484.440 | -1.387 | .21E-05 | 0.00 | .14E-05 | 180.000 | .28E-05 | 90.000 | .717E+04 | -180.000 | 3458.862 | -4.436 | .00734 |
| 71. | 3483.126 | -1.089 | .21E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .762E+04 | -180.000 | 3454.239 | -4.328 | .00829 |
| 72. | 3482.121 | -.800 | .20E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .807E+04 | -180.000 | 3449.739 | -4.214 | .00930 |
| 73. | 3481.410 | -.538 | .20E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .853E+04 | 180.000 | 3445.369 | -4.092 | .01035 |
| 74. | 3480.972 | -.290 | .20E-05 | 0.00 | .13E-05 | 180.000 | .26E-05 | 90.000 | .899E+04 | -180.000 | 3441.138 | -3.958 | .01144 |
| 75. | 3480.780 | -.066 | .19E-05 | 0.00 | .13E-05 | 180.000 | .26E-05 | 90.000 | .944E+04 | -180.000 | 3437.063 | -3.807 | .01256 |
| 76. | 3480.823 | .131 | .19E-05 | 0.00 | .12E-05 | 180.000 | .26E-05 | 90.000 | .990E+04 | 180.000 | 3433.163 | -3.634 | .01369 |
| 77. | 3481.052 | .293 | .19E-05 | 0.00 | .12E-05 | 180.000 | .26E-05 | 90.000 | .103E+05 | -180.000 | 3429.459 | -3.439 | .01482 |
| 78. | 3481.437 | .423 | .18E-05 | 0.00 | .11E-05 | 180.000 | .25E-05 | 90.000 | .108E+05 | 180.000 | 3425.975 | -3.223 | .01593 |
| 79. | 3481.937 | .513 | .18E-05 | 0.00 | .99E-06 | 180.000 | .25E-05 | 90.000 | .112E+05 | -180.000 | 3422.731 | -2.990 | .01700 |
| 80. | 3482.512 | .560 | .18E-05 | 0.00 | .87E-06 | 180.000 | .25E-05 | 90.000 | .117E+05 | 180.000 | 3419.738 | -2.750 | .01803 |
| 81. | 3483.124 | .564 | .18E-05 | 0.00 | .75E-06 | -180.000 | .25E-05 | 90.000 | .121E+05 | 180.000 | 3416.993 | -2.520 | .01899 |
| 82. | 3483.743 | .580 | .18E-05 | 0.00 | .61E-06 | -180.000 | .25E-05 | 90.000 | .125E+05 | 180.000 | 3414.478 | -2.317 | .01986 |
| 83. | 3484.348 | .557 | .17E-05 | 0.00 | .47E-06 | -180.000 | .25E-05 | 90.000 | .129E+05 | 180.000 | 3412.154 | -2.161 | .02072 |
| 84. | 3484.916 | .507 | .17E-05 | 0.00 | .33E-06 | -180.000 | .25E-05 | 90.000 | .131E+05 | 180.000 | 3409.962 | -2.066 | .02151 |
| 85. | 3485.407 | .406 | .17E-05 | 0.00 | .22E-06 | -180.000 | .25E-05 | 90.000 | .134E+05 | -180.000 | 3407.830 | -2.049 | .02226 |
| 86. | 3485.745 | .213 | .17E-05 | 0.00 | .12E-06 | -180.000 | .25E-05 | 90.000 | .137E+05 | -180.000 | 3405.679 | -2.108 | .02297 |
| 87. | 3485.815 | -.105 | .16E-05 | 0.00 | .32E-07 | -180.000 | .26E-05 | 90.000 | .140E+05 | -180.000 | 3403.429 | -2.239 | .02363 |
| 88. | 3485.476 | -.550 | .16E-05 | 0.00 | .32E-07 | 0.000 | .26E-05 | 90.000 | .142E+05 | -180.000 | 3401.015 | -2.426 | .02423 |
| 89. | 3484.597 | -1.114 | .16E-05 | 0.00 | .92E-07 | 0.000 | .26E-05 | 90.000 | .144E+05 | 180.000 | 3398.386 | -2.652 | .02474 |
| 90. | 3483.092 | -1.726 | .16E-05 | 0.00 | .14E-06 | 0.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3395.514 | -2.896 | .02514 |
| 91. | 3480.934 | -2.335 | .18E-05 | 0.00 | .18E-06 | 0.000 | .27E-05 | 90.000 | .146E+05 | -180.000 | 3392.390 | -3.139 | .02544 |
| 92. | 3478.155 | -2.894 | .18E-05 | 0.00 | .23E-06 | 0.000 | .27E-05 | 90.000 | .147E+05 | 180.000 | 3389.025 | -3.366 | .02563 |
| 93. | 3474.824 | -3.378 | .18E-05 | 0.00 | .28E-06 | 0.000 | .27E-05 | 90.000 | .146E+05 | -180.000 | 3385.442 | -3.567 | .02572 |
| 94. | 3471.032 | -3.769 | .18E-05 | 0.00 | .30E-06 | 0.000 | .26E-05 | 90.000 | .146E+05 | 180.000 | 3381.672 | -3.733 | .02574 |
| 95. | 3466.875 | -4.072 | .18E-05 | 0.00 | .33E-06 | 0.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3377.752 | -3.863 | .02571 |
| 96. | 3462.447 | -4.292 | .18E-05 | 0.00 | .32E-06 | 0.000 | .26E-05 | 90.000 | .144E+05 | 180.000 | 3373.724 | -3.953 | .02562 |
| 97. | 3457.832 | -4.435 | .18E-05 | 0.00 | .38E-06 | 0.000 | .26E-05 | 90.000 | .143E+05 | 180.000 | 3369.627 | -4.005 | .02551 |
| 98. | 3453.108 | -4.512 | .18E-05 | 0.00 | .40E-06 | 0.000 | .26E-05 | 90.000 | .142E+05 | 180.000 | 3365.501 | -4.020 | .02537 |
| 99. | 3448.341 | -4.530 | .18E-05 | 0.00 | .42E-06 | 0.000 | .26E-05 | 90.000 | .141E+05 | -180.000 | 3361.383 | -4.000 | .02522 |

X-CUT LITHIUM NIOBATE(WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3443.589 | -4.497 | .17E-05 | 0.00 | .43E-06 | 0.000 | .26E-05 | 90.000 | .140E+05 | 180.000 | 3357.307 | -3.947 | .02506 |
| 101. | 3438.902 | -4.420 | .17E-05 | 0.00 | .44E-06 | 0.000 | .26E-05 | 90.000 | .139E+05 | 180.000 | 3353.308 | -3.862 | .02489 |
| 102. | 3434.323 | -4.304 | .17E-05 | 0.00 | .45E-06 | 0.000 | .26E-05 | 90.000 | .138E+05 | -180.000 | 3349.414 | -3.750 | .02472 |
| 103. | 3429.891 | -4.154 | .17E-05 | 0.00 | .46E-06 | 0.000 | .26E-05 | 90.000 | .137E+05 | 180.000 | 3345.654 | -3.610 | .02456 |
| 104. | 3425.637 | -3.975 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .137E+05 | 180.000 | 3342.053 | -3.447 | .02440 |
| 105. | 3421.589 | -3.771 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .136E+05 | 180.000 | 3338.634 | -3.262 | .02424 |
| 106. | 3417.772 | -3.544 | .17E-05 | 0.00 | .48E-06 | 0.000 | .25E-05 | 90.000 | .136E+05 | 180.000 | 3335.418 | -3.056 | .02410 |
| 107. | 3414.207 | -3.297 | .17E-05 | 0.00 | .48E-06 | 0.000 | .25E-05 | 90.000 | .135E+05 | 180.000 | 3332.424 | -2.832 | .02395 |
| 108. | 3410.912 | -3.034 | .17E-05 | 0.00 | .48E-06 | 0.000 | .25E-05 | 90.000 | .134E+05 | 180.000 | 3329.668 | -2.592 | .02382 |
| 109. | 3407.901 | -2.756 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .134E+05 | 180.000 | 3327.167 | -2.337 | .02369 |
| 110. | 3405.189 | -2.466 | .18E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .134E+05 | -180.000 | 3324.932 | -2.069 | .02357 |
| 111. | 3402.786 | -2.165 | .18E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .133E+05 | -180.000 | 3322.977 | -1.789 | .02345 |
| 112. | 3400.702 | -1.855 | .18E-05 | 0.00 | .46E-06 | 0.000 | .26E-05 | 90.000 | .133E+05 | 180.000 | 3321.312 | -1.500 | .02335 |
| 113. | 3398.945 | -1.538 | .18E-05 | 0.00 | .46E-06 | 0.000 | .26E-05 | 90.000 | .133E+05 | 180.000 | 3319.945 | -1.202 | .02324 |
| 114. | 3397.519 | -1.215 | .18E-05 | 0.00 | .45E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3318.884 | -.896 | .02314 |
| 115. | 3396.430 | -.889 | .18E-05 | 0.00 | .44E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3318.134 | -.585 | .02305 |
| 116. | 3395.680 | -.560 | .18E-05 | 0.00 | .43E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3317.702 | -.270 | .02296 |
| 117. | 3395.272 | -.229 | .18E-05 | 0.00 | .42E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3317.590 | .049 | .02288 |
| 118. | 3395.206 | .102 | .18E-05 | 0.00 | .41E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3317.801 | .369 | .02280 |
| 119. | 3395.482 | .431 | .18E-05 | 0.00 | .40E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3318.336 | .690 | .02272 |
| 120. | 3396.098 | .759 | .18E-05 | 0.00 | .39E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | -180.000 | 3319.196 | 1.011 | .02264 |
| 121. | 3397.051 | 1.083 | .18E-05 | 0.00 | .37E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3320.380 | 1.330 | .02257 |
| 122. | 3398.338 | 1.403 | .18E-05 | 0.00 | .36E-06 | 0.000 | .26E-05 | 90.000 | .130E+05 | 180.000 | 3321.886 | 1.646 | .02250 |
| 123. | 3399.955 | 1.718 | .19E-05 | 0.00 | .34E-06 | 0.000 | .27E-05 | 90.000 | .130E+05 | -180.000 | 3323.711 | 1.959 | .02243 |
| 124. | 3401.896 | 2.027 | .19E-05 | 0.00 | .33E-06 | 0.000 | .27E-05 | 90.000 | .130E+05 | 180.000 | 3325.852 | 2.267 | .02235 |
| 125. | 3404.156 | 2.330 | .19E-05 | 0.00 | .31E-06 | 0.000 | .27E-05 | 90.000 | .129E+05 | 180.000 | 3328.305 | 2.570 | .02228 |
| 126. | 3406.728 | 2.625 | .19E-05 | 0.00 | .29E-06 | 0.000 | .27E-05 | 90.000 | .129E+05 | 180.000 | 3331.065 | 2.866 | .02221 |
| 127. | 3409.604 | 2.912 | .19E-05 | 0.00 | .28E-06 | 0.000 | .27E-05 | 90.000 | .128E+05 | 180.000 | 3334.125 | 3.156 | .02214 |
| 128. | 3412.778 | 3.190 | .19E-05 | 0.00 | .26E-06 | 0.000 | .27E-05 | 90.000 | .128E+05 | 180.000 | 3337.480 | 3.439 | .02206 |
| 129. | 3416.241 | 3.460 | .19E-05 | 0.00 | .24E-06 | 0.000 | .27E-05 | 90.000 | .127E+05 | 180.000 | 3341.123 | 3.713 | .02199 |
| 130. | 3419.985 | 3.720 | .19E-05 | 0.00 | .22E-06 | 0.000 | .27E-05 | 90.000 | .126E+05 | -180.000 | 3345.046 | 3.979 | .02191 |
| 131. | 3424.001 | 3.971 | .19E-05 | 0.00 | .20E-06 | 0.000 | .28E-05 | 90.000 | .126E+05 | 180.000 | 3349.241 | 4.235 | .02183 |
| 132. | 3428.280 | 4.213 | .19E-05 | 0.00 | .18E-06 | 0.000 | .28E-05 | 90.000 | .125E+05 | 180.000 | 3353.701 | 4.482 | .02175 |
| 133. | 3432.812 | 4.444 | .20E-05 | 0.00 | .16E-06 | 0.000 | .28E-05 | 90.000 | .124E+05 | -180.000 | 3358.415 | 4.720 | .02167 |
| 134. | 3437.589 | 4.665 | .20E-05 | 0.00 | .14E-06 | 0.000 | .28E-05 | 90.000 | .123E+05 | 180.000 | 3363.377 | 4.947 | .02159 |
| 135. | 3442.602 | 4.877 | .20E-05 | 0.00 | .12E-06 | 0.000 | .28E-05 | 90.000 | .122E+05 | 180.000 | 3368.575 | 5.165 | .02150 |
| 136. | 3447.841 | 5.079 | .20E-05 | 0.00 | .90E-07 | 0.000 | .28E-05 | 90.000 | .121E+05 | -180.000 | 3374.002 | 5.372 | .02142 |
| 137. | 3453.296 | 5.271 | .20E-05 | 0.00 | .75E-07 | 0.000 | .28E-05 | 90.000 | .120E+05 | 180.000 | 3379.647 | 5.568 | .02133 |
| 138. | 3458.960 | 5.454 | .20E-05 | 0.00 | .54E-07 | 0.000 | .28E-05 | 90.000 | .119E+05 | 180.000 | 3385.500 | 5.754 | .02124 |
| 139. | 3464.821 | 5.627 | .20E-05 | 0.00 | .33E-07 | 0.000 | .29E-05 | 90.000 | .117E+05 | 180.000 | 3391.552 | 5.929 | .02115 |
| 140. | 3470.872 | 5.790 | .20E-05 | 0.00 | .13E-07 | 0.000 | .29E-05 | 90.000 | .116E+05 | 180.000 | 3397.792 | 6.094 | .02106 |
| 141. | 3477.103 | 5.943 | .20E-05 | 0.00 | .73E-06 | 180.000 | .29E-05 | 90.000 | .115E+05 | 180.000 | 3404.211 | 6.247 | .02096 |
| 142. | 3483.504 | 6.087 | .20E-05 | 0.00 | .27E-07 | 180.000 | .29E-05 | 90.000 | .113E+05 | 180.000 | 3410.797 | 6.389 | .02087 |
| 143. | 3490.068 | 6.222 | .20E-05 | 0.00 | .46E-07 | -180.000 | .29E-05 | 90.000 | .112E+05 | -180.000 | 3417.539 | 6.521 | .02078 |
| 144. | 3496.783 | 6.347 | .20E-05 | 0.00 | .65E-07 | 180.000 | .29E-05 | 90.000 | .110E+05 | 180.000 | 3424.428 | 6.641 | .02069 |
| 145. | 3503.641 | 6.463 | .21E-05 | 0.00 | .84E-07 | -180.000 | .29E-05 | 90.000 | .109E+05 | -180.000 | 3431.452 | 6.749 | .02060 |
| 146. | 3510.633 | 6.568 | .20E-05 | 0.00 | .10E-06 | 180.000 | .29E-05 | 90.000 | .108E+05 | 180.000 | 3438.600 | 6.847 | .02052 |
| 147. | 3517.749 | 6.665 | .20E-05 | 0.00 | .12E-06 | -180.000 | .29E-05 | 90.000 | .106E+05 | -180.000 | 3445.861 | 6.935 | .02044 |
| 148. | 3524.978 | 6.751 | .20E-05 | 0.00 | .14E-06 | 180.000 | .29E-05 | 90.000 | .105E+05 | 180.000 | 3453.222 | 7.008 | .02036 |
| 149. | 3532.310 | 6.827 | .21E-05 | 0.00 | .15E-06 | 180.000 | .30E-05 | 90.000 | .103E+05 | 180.000 | 3460.673 | 7.071 | .02028 |

X-CUT LITHIUM NIOBATE(WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3539.735 | 6.893 | .20E-05 | 0.00 | .17E-06 | 180.000 | .30E-05 | 90.000 | .102E+05 | 180.000 | 3468.203 | 7.123 | .02021 |
| 151. | 3547.243 | 6.948 | .20E-05 | 0.00 | .18E-06 | 180.000 | .30E-05 | 90.000 | .100E+05 | 180.000 | 3475.798 | 7.164 | .02014 |
| 152. | 3554.822 | 6.993 | .20E-05 | 0.00 | .19E-06 | 180.000 | .30E-05 | 90.000 | .986E+04 | 180.000 | 3483.448 | 7.193 | .02008 |
| 153. | 3562.461 | 7.028 | .20E-05 | 0.00 | .21E-06 | 180.000 | .30E-05 | 90.000 | .975E+04 | 180.000 | 3491.141 | 7.212 | .02002 |
| 154. | 3570.148 | 7.051 | .21E-05 | 0.00 | .22E-06 | 180.000 | .30E-05 | 90.000 | .961E+04 | 180.000 | 3498.865 | 7.220 | .01997 |
| 155. | 3577.872 | 7.064 | .21E-05 | 0.00 | .23E-06 | -180.000 | .30E-05 | 90.000 | .948E+04 | -180.000 | 3506.609 | 7.217 | .01992 |
| 156. | 3585.621 | 7.066 | .21E-05 | 0.00 | .24E-06 | 180.000 | .30E-05 | 90.000 | .935E+04 | 180.000 | 3514.362 | 7.204 | .01987 |
| 157. | 3593.382 | 7.057 | .21E-05 | 0.00 | .26E-06 | 180.000 | .30E-05 | 90.000 | .922E+04 | 180.000 | 3522.112 | 7.182 | .01983 |
| 158. | 3601.143 | 7.036 | .21E-05 | 0.00 | .27E-06 | 180.000 | .30E-05 | 90.000 | .910E+04 | 180.000 | 3529.850 | 7.149 | .01980 |
| 159. | 3608.893 | 7.005 | .21E-05 | 0.00 | .27E-06 | 180.000 | .30E-05 | 90.000 | .899E+04 | 180.000 | 3537.564 | 7.108 | .01976 |
| 160. | 3616.617 | 6.962 | .21E-05 | 0.00 | .28E-06 | 180.000 | .30E-05 | 90.000 | .887E+04 | 180.000 | 3545.245 | 7.058 | .01973 |
| 161. | 3624.304 | 6.908 | .21E-05 | 0.00 | .29E-06 | 180.000 | .30E-05 | 90.000 | .877E+04 | 180.000 | 3552.884 | 7.000 | .01971 |
| 162. | 3631.941 | 6.843 | .21E-05 | 0.00 | .30E-06 | 180.000 | .30E-05 | 90.000 | .866E+04 | 180.000 | 3560.471 | 6.935 | .01968 |
| 163. | 3639.515 | 6.768 | .21E-05 | 0.00 | .31E-06 | 180.000 | .30E-05 | 90.000 | .856E+04 | 180.000 | 3567.998 | 6.863 | .01965 |
| 164. | 3647.013 | 6.682 | .21E-05 | 0.00 | .32E-06 | -180.000 | .30E-05 | 90.000 | .847E+04 | -180.000 | 3575.458 | 6.784 | .01962 |
| 165. | 3654.424 | 6.585 | .21E-05 | 0.00 | .32E-06 | 180.000 | .31E-05 | 90.000 | .838E+04 | -180.000 | 3582.843 | 6.699 | .01959 |
| 166. | 3661.734 | 6.477 | .21E-05 | 0.00 | .33E-06 | -180.000 | .31E-05 | 90.000 | .829E+04 | -180.000 | 3590.146 | 6.610 | .01955 |
| 167. | 3668.932 | 6.360 | .21E-05 | 0.00 | .34E-06 | -180.000 | .31E-05 | 90.000 | .821E+04 | -180.000 | 3597.362 | 6.515 | .01951 |
| 168. | 3676.005 | 6.233 | .21E-05 | 0.00 | .34E-06 | -180.000 | .31E-05 | 90.000 | .813E+04 | -180.000 | 3604.485 | 6.417 | .01946 |
| 169. | 3682.941 | 6.095 | .21E-05 | 0.00 | .35E-06 | 180.000 | .31E-05 | 90.000 | .805E+04 | 180.000 | 3611.511 | 6.314 | .01939 |
| 170. | 3689.729 | 5.949 | .21E-05 | 0.00 | .36E-06 | -180.000 | .31E-05 | 90.000 | .796E+04 | -180.000 | 3618.434 | 6.209 | .01932 |
| 171. | 3696.358 | 5.793 | .21E-05 | 0.00 | .36E-06 | 180.000 | .31E-05 | 90.000 | .790E+04 | -180.000 | 3625.251 | 6.101 | .01924 |
| 172. | 3702.815 | 5.627 | .21E-05 | 0.00 | .37E-06 | -180.000 | .31E-05 | 90.000 | .784E+04 | -180.000 | 3631.958 | 5.990 | .01914 |
| 173. | 3709.090 | 5.454 | .21E-05 | 0.00 | .37E-06 | 180.000 | .31E-05 | 90.000 | .777E+04 | 180.000 | 3638.552 | 5.877 | .01902 |
| 174. | 3715.172 | 5.271 | .21E-05 | 0.00 | .38E-06 | 180.000 | .31E-05 | 90.000 | .770E+04 | -180.000 | 3645.031 | 5.762 | .01888 |
| 175. | 3721.052 | 5.081 | .21E-05 | 0.00 | .38E-06 | 180.000 | .31E-05 | 90.000 | .764E+04 | -180.000 | 3651.390 | 5.645 | .01872 |
| 176. | 3726.718 | 4.883 | .21E-05 | 0.00 | .39E-06 | 180.000 | .31E-05 | 90.000 | .758E+04 | 180.000 | 3657.628 | 5.526 | .01854 |
| 177. | 3732.161 | 4.677 | .21E-05 | 0.00 | .40E-06 | 180.000 | .31E-05 | 90.000 | .752E+04 | 180.000 | 3663.742 | 5.405 | .01833 |
| 178. | 3737.372 | 4.463 | .21E-05 | 0.00 | .40E-06 | -180.000 | .31E-05 | 90.000 | .745E+04 | -180.000 | 3669.728 | 5.281 | .01810 |
| 179. | 3742.341 | 4.242 | .21E-05 | 0.00 | .41E-06 | 180.000 | .31E-05 | 90.000 | .739E+04 | 180.000 | 3675.582 | 5.155 | .01784 |
| 180. | 3747.060 | 4.015 | .21E-05 | 0.00 | .41E-06 | 180.000 | .31E-05 | 90.000 | .733E+04 | -180.000 | 3681.301 | 5.025 | .01755 |

Y-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3769.021 | 0.000 | .22E-05 | 0.00 | .73E-06 | -90.000 | .31E-05 | 90.000 | .451E+04 | 90.000 | 3739.580 | 0.000 | .00781 |
| 1. | 3768.870 | -.263 | .22E-05 | 0.00 | .73E-06 | -90.410 | .31E-05 | 89.817 | .452E+04 | 91.546 | 3739.415 | -.289 | .00782 |
| 2. | 3768.418 | -.525 | .22E-05 | 0.00 | .73E-06 | -90.823 | .31E-05 | 89.634 | .453E+04 | 93.091 | 3738.921 | -.578 | .00783 |
| 3. | 3767.665 | -.786 | .22E-05 | 0.00 | .73E-06 | -91.242 | .31E-05 | 89.452 | .454E+04 | 94.634 | 3738.097 | -.868 | .00785 |
| 4. | 3766.614 | -1.046 | .22E-05 | 0.00 | .73E-06 | -91.670 | .31E-05 | 89.272 | .457E+04 | 96.175 | 3736.944 | -1.157 | .00788 |
| 5. | 3765.265 | -1.305 | .22E-05 | 0.00 | .73E-06 | -92.111 | .31E-05 | 89.093 | .460E+04 | 97.711 | 3735.462 | -1.447 | .00792 |
| 6. | 3763.621 | -1.561 | .22E-05 | 0.00 | .74E-06 | -92.567 | .31E-05 | 88.917 | .464E+04 | 99.242 | 3733.651 | -1.736 | .00796 |
| 7. | 3761.686 | -1.814 | .22E-05 | 0.00 | .74E-06 | -93.042 | .31E-05 | 88.744 | .469E+04 | 100.763 | 3731.511 | -2.026 | .00802 |
| 8. | 3759.463 | -2.065 | .22E-05 | 0.00 | .74E-06 | -93.539 | .31E-05 | 88.573 | .474E+04 | 102.274 | 3729.044 | -2.315 | .00809 |
| 9. | 3756.957 | -2.312 | .22E-05 | 0.00 | .74E-06 | -94.062 | .31E-05 | 88.407 | .481E+04 | 103.771 | 3726.250 | -2.603 | .00817 |
| 10. | 3754.170 | -2.556 | .22E-05 | 0.00 | .75E-06 | -94.612 | .31E-05 | 88.244 | .488E+04 | 105.249 | 3723.131 | -2.890 | .00827 |
| 11. | 3751.108 | -2.796 | .22E-05 | 0.00 | .75E-06 | -95.195 | .31E-05 | 88.087 | .496E+04 | 106.706 | 3719.690 | -3.176 | .00838 |
| 12. | 3747.777 | -3.032 | .22E-05 | 0.00 | .75E-06 | -95.812 | .31E-05 | 87.934 | .505E+04 | 108.135 | 3715.928 | -3.459 | .00850 |
| 13. | 3744.180 | -3.264 | .22E-05 | 0.00 | .76E-06 | -96.467 | .31E-05 | 87.787 | .515E+04 | 109.534 | 3711.850 | -3.740 | .00863 |
| 14. | 3740.324 | -3.492 | .22E-05 | 0.00 | .76E-06 | -97.164 | .31E-05 | 87.647 | .526E+04 | 110.897 | 3707.459 | -4.018 | .00879 |
| 15. | 3736.214 | -3.716 | .22E-05 | 0.00 | .76E-06 | -97.905 | .31E-05 | 87.512 | .538E+04 | 112.220 | 3702.762 | -4.291 | .00895 |
| 16. | 3731.855 | -3.936 | .22E-05 | 0.00 | .77E-06 | -98.694 | .31E-05 | 87.385 | .551E+04 | 113.498 | 3697.763 | -4.560 | .00914 |
| 17. | 3727.252 | -4.152 | .22E-05 | 0.00 | .77E-06 | -99.533 | .31E-05 | 87.265 | .564E+04 | 114.728 | 3692.471 | -4.822 | .00933 |
| 18. | 3722.412 | -4.364 | .22E-05 | 0.00 | .77E-06 | -100.425 | .31E-05 | 87.153 | .579E+04 | 115.907 | 3686.893 | -5.078 | .00954 |
| 19. | 3717.339 | -4.572 | .23E-05 | 0.00 | .78E-06 | -101.373 | .31E-05 | 87.049 | .595E+04 | 117.032 | 3681.037 | -5.327 | .00977 |
| 20. | 3712.038 | -4.776 | .23E-05 | 0.00 | .78E-06 | -102.377 | .31E-05 | 86.954 | .611E+04 | 118.101 | 3674.915 | -5.567 | .01000 |
| 21. | 3706.514 | -4.977 | .23E-05 | 0.00 | .79E-06 | -103.441 | .31E-05 | 86.867 | .629E+04 | 119.113 | 3668.537 | -5.798 | .01025 |
| 22. | 3700.772 | -5.174 | .23E-05 | 0.00 | .79E-06 | -104.563 | .31E-05 | 86.788 | .647E+04 | 120.069 | 3661.915 | -6.020 | .01050 |
| 23. | 3694.818 | -5.368 | .23E-05 | 0.00 | .79E-06 | -105.745 | .31E-05 | 86.719 | .665E+04 | 120.969 | 3655.062 | -6.230 | .01076 |
| 24. | 3688.655 | -5.559 | .23E-05 | 0.00 | .79E-06 | -106.986 | .31E-05 | 86.658 | .684E+04 | 121.815 | 3647.992 | -6.429 | .01102 |
| 25. | 3682.288 | -5.746 | .23E-05 | 0.00 | .80E-06 | -108.285 | .31E-05 | 86.605 | .704E+04 | 122.611 | 3640.719 | -6.615 | .01129 |
| 26. | 3675.723 | -5.929 | .23E-05 | 0.00 | .80E-06 | -109.637 | .31E-05 | 86.561 | .723E+04 | 123.359 | 3633.258 | -6.789 | .01155 |
| 27. | 3668.966 | -6.107 | .23E-05 | 0.00 | .80E-06 | -111.040 | .31E-05 | 86.525 | .743E+04 | 124.064 | 3625.626 | -6.949 | .01181 |
| 28. | 3662.023 | -6.280 | .23E-05 | 0.00 | .81E-06 | -112.487 | .31E-05 | 86.497 | .763E+04 | 124.730 | 3617.839 | -7.095 | .01207 |
| 29. | 3654.901 | -6.447 | .23E-05 | 0.00 | .81E-06 | -113.974 | .31E-05 | 86.475 | .783E+04 | 125.364 | 3609.913 | -7.227 | .01231 |
| 30. | 3647.609 | -6.607 | .23E-05 | 0.00 | .81E-06 | -115.491 | .31E-05 | 86.460 | .802E+04 | 125.972 | 3601.867 | -7.343 | .01254 |
| 31. | 3640.157 | -6.759 | .23E-05 | 0.00 | .81E-06 | -117.030 | .31E-05 | 86.451 | .821E+04 | 126.560 | 3593.717 | -7.444 | .01276 |
| 32. | 3632.555 | -6.900 | .23E-05 | 0.00 | .82E-06 | -118.580 | .31E-05 | 86.446 | .840E+04 | 127.134 | 3585.481 | -7.530 | .01296 |
| 33. | 3624.817 | -7.030 | .23E-05 | 0.00 | .82E-06 | -120.133 | .31E-05 | 86.446 | .857E+04 | 127.701 | 3577.179 | -7.600 | .01314 |
| 34. | 3616.958 | -7.146 | .23E-05 | 0.00 | .82E-06 | -121.675 | .31E-05 | 86.450 | .874E+04 | 128.268 | 3568.826 | -7.655 | .01331 |
| 35. | 3608.994 | -7.248 | .23E-05 | 0.00 | .83E-06 | -123.196 | .31E-05 | 86.457 | .890E+04 | 128.842 | 3560.442 | -7.693 | .01345 |
| 36. | 3600.943 | -7.333 | .23E-05 | 0.00 | .83E-06 | -124.685 | .31E-05 | 86.466 | .905E+04 | 129.426 | 3552.044 | -7.716 | .01358 |
| 37. | 3592.826 | -7.399 | .23E-05 | 0.00 | .84E-06 | -126.131 | .31E-05 | 86.477 | .919E+04 | 130.032 | 3543.649 | -7.722 | .01369 |
| 38. | 3584.664 | -7.446 | .23E-05 | 0.00 | .84E-06 | -127.524 | .31E-05 | 86.490 | .931E+04 | 130.661 | 3535.276 | -7.713 | .01378 |
| 39. | 3576.480 | -7.472 | .23E-05 | 0.00 | .84E-06 | -128.855 | .31E-05 | 86.504 | .943E+04 | 131.319 | 3526.941 | -7.689 | .01385 |
| 40. | 3568.298 | -7.476 | .23E-05 | 0.00 | .85E-06 | -130.116 | .31E-05 | 86.518 | .954E+04 | 132.011 | 3518.661 | -7.648 | .01391 |
| 41. | 3560.142 | -7.458 | .23E-05 | 0.00 | .85E-06 | -131.300 | .31E-05 | 86.533 | .964E+04 | 132.739 | 3510.453 | -7.592 | .01396 |
| 42. | 3552.039 | -7.416 | .23E-05 | 0.00 | .86E-06 | -132.404 | .31E-05 | 86.548 | .973E+04 | 133.508 | 3502.333 | -7.521 | .01399 |
| 43. | 3544.012 | -7.350 | .23E-05 | 0.00 | .86E-06 | -133.423 | .31E-05 | 86.565 | .982E+04 | 134.318 | 3494.318 | -7.435 | .01402 |
| 44. | 3536.089 | -7.261 | .23E-05 | 0.00 | .87E-06 | -134.354 | .31E-05 | 86.581 | .989E+04 | 135.172 | 3486.422 | -7.333 | .01405 |
| 45. | 3528.295 | -7.148 | .22E-05 | 0.00 | .87E-06 | -135.196 | .31E-05 | 86.599 | .996E+04 | 136.069 | 3478.662 | -7.216 | .01407 |
| 46. | 3520.653 | -7.011 | .22E-05 | 0.00 | .88E-06 | -135.951 | .31E-05 | 86.616 | .100E+05 | 137.010 | 3471.052 | -7.085 | .01409 |
| 47. | 3513.188 | -6.852 | .22E-05 | 0.00 | .88E-06 | -136.617 | .31E-05 | 86.638 | .101E+05 | 137.993 | 3463.608 | -6.938 | .01411 |
| 48. | 3505.924 | -6.671 | .22E-05 | 0.00 | .89E-06 | -137.198 | .31E-05 | 86.659 | .102E+05 | 139.017 | 3456.344 | -6.777 | .01414 |
| 49. | 3498.882 | -6.469 | .22E-05 | 0.00 | .90E-06 | -137.696 | .30E-05 | 86.683 | .102E+05 | 140.079 | 3449.275 | -6.602 | .01418 |

Y-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3492.083 | -6.246 | .22E-05 | 0.00 | .90E-06 | -138.113 | .30E-05 | 86.710 | .103E+05 | 141.176 | 3442.415 | -6.411 | .01422 |
| 51. | 3485.547 | -6.004 | .22E-05 | 0.00 | .91E-06 | -138.454 | .30E-05 | 86.739 | .103E+05 | 142.304 | 3435.777 | -6.207 | .01428 |
| 52. | 3479.292 | -5.744 | .22E-05 | 0.00 | .91E-06 | -138.721 | .30E-05 | 86.771 | .104E+05 | 143.460 | 3429.376 | -5.989 | .01435 |
| 53. | 3473.336 | -5.466 | .21E-05 | 0.00 | .92E-06 | -138.919 | .30E-05 | 86.816 | .105E+05 | 144.639 | 3423.224 | -5.756 | .01443 |
| 54. | 3467.695 | -5.173 | .21E-05 | 0.00 | .92E-06 | -139.050 | .30E-05 | 86.846 | .105E+05 | 145.837 | 3417.335 | -5.510 | .01452 |
| 55. | 3462.382 | -4.865 | .21E-05 | 0.00 | .93E-06 | -139.120 | .30E-05 | 86.869 | .106E+05 | 147.050 | 3411.721 | -5.250 | .01463 |
| 56. | 3457.412 | -4.543 | .21E-05 | 0.00 | .93E-06 | -139.130 | .29E-05 | 86.937 | .107E+05 | 148.273 | 3406.395 | -4.978 | .01476 |
| 57. | 3452.796 | -4.210 | .21E-05 | 0.00 | .94E-06 | -139.085 | .29E-05 | 86.969 | .107E+05 | 149.504 | 3401.369 | -4.692 | .01489 |
| 58. | 3448.544 | -3.864 | .21E-05 | 0.00 | .94E-06 | -138.988 | .29E-05 | 87.046 | .108E+05 | 150.737 | 3396.653 | -4.395 | .01505 |
| 59. | 3444.667 | -3.509 | .20E-05 | 0.00 | .95E-06 | -138.840 | .29E-05 | 87.106 | .109E+05 | 151.970 | 3392.260 | -4.086 | .01521 |
| 60. | 3441.173 | -3.145 | .20E-05 | 0.00 | .95E-06 | -138.644 | .29E-05 | 87.174 | .110E+05 | 153.200 | 3388.198 | -3.766 | .01539 |
| 61. | 3438.068 | -2.774 | .20E-05 | 0.00 | .95E-06 | -138.401 | .28E-05 | 87.245 | .111E+05 | 154.424 | 3384.478 | -3.436 | .01559 |
| 62. | 3435.360 | -2.396 | .20E-05 | 0.00 | .96E-06 | -138.113 | .28E-05 | 87.322 | .111E+05 | 155.640 | 3381.108 | -3.096 | .01579 |
| 63. | 3433.053 | -2.012 | .20E-05 | 0.00 | .96E-06 | -137.781 | .28E-05 | 87.403 | .112E+05 | 156.848 | 3378.097 | -2.748 | .01601 |
| 64. | 3431.151 | -1.624 | .20E-05 | 0.00 | .96E-06 | -137.404 | .28E-05 | 87.489 | .113E+05 | 158.044 | 3375.450 | -2.393 | .01623 |
| 65. | 3429.658 | -1.233 | .19E-05 | 0.00 | .96E-06 | -136.982 | .27E-05 | 87.579 | .114E+05 | 159.230 | 3373.174 | -2.032 | .01647 |
| 66. | 3428.575 | -.840 | .19E-05 | 0.00 | .96E-06 | -136.515 | .27E-05 | 87.675 | .115E+05 | 160.405 | 3371.274 | -1.666 | .01671 |
| 67. | 3427.904 | -.446 | .19E-05 | 0.00 | .96E-06 | -136.000 | .27E-05 | 87.774 | .116E+05 | 161.569 | 3369.752 | -1.297 | .01696 |
| 68. | 3427.644 | -.052 | .19E-05 | 0.00 | .96E-06 | -135.436 | .27E-05 | 87.879 | .117E+05 | 162.722 | 3368.611 | -.927 | .01722 |
| 69. | 3427.794 | .340 | .18E-05 | 0.00 | .95E-06 | -134.821 | .26E-05 | 87.987 | .118E+05 | 163.866 | 3367.850 | -.557 | .01749 |
| 70. | 3428.352 | .728 | .18E-05 | 0.00 | .95E-06 | -134.150 | .26E-05 | 88.099 | .119E+05 | 165.001 | 3367.468 | -.189 | .01776 |
| 71. | 3429.314 | 1.112 | .18E-05 | 0.00 | .94E-06 | -133.420 | .26E-05 | 88.215 | .120E+05 | 166.129 | 3367.461 | .174 | .01804 |
| 72. | 3430.674 | 1.490 | .18E-05 | 0.00 | .94E-06 | -132.626 | .26E-05 | 88.334 | .121E+05 | 167.251 | 3367.822 | .530 | .01832 |
| 73. | 3432.425 | 1.858 | .18E-05 | 0.00 | .93E-06 | -131.762 | .25E-05 | 88.457 | .122E+05 | 168.368 | 3368.544 | .875 | .01861 |
| 74. | 3434.557 | 2.215 | .18E-05 | 0.00 | .92E-06 | -130.821 | .25E-05 | 88.582 | .123E+05 | 169.483 | 3369.614 | 1.208 | .01891 |
| 75. | 3437.058 | 2.558 | .17E-05 | 0.00 | .90E-06 | -129.797 | .25E-05 | 88.709 | .124E+05 | 170.596 | 3371.018 | 1.524 | .01921 |
| 76. | 3439.911 | 2.883 | .17E-05 | 0.00 | .89E-06 | -128.682 | .25E-05 | 88.839 | .125E+05 | 171.709 | 3372.737 | 1.819 | .01953 |
| 77. | 3443.097 | 3.186 | .17E-05 | 0.00 | .87E-06 | -127.465 | .25E-05 | 88.970 | .126E+05 | 172.823 | 3374.746 | 2.088 | .01985 |
| 78. | 3446.592 | 3.461 | .17E-05 | 0.00 | .85E-06 | -126.136 | .25E-05 | 89.103 | .127E+05 | 173.939 | 3377.023 | 2.327 | .02018 |
| 79. | 3450.363 | 3.703 | .17E-05 | 0.00 | .83E-06 | -124.687 | .25E-05 | 89.236 | .129E+05 | 175.056 | 3379.527 | 2.530 | .02053 |
| 80. | 3454.372 | 3.902 | .17E-05 | 0.00 | .81E-06 | -123.105 | .25E-05 | 89.368 | .130E+05 | 176.173 | 3382.220 | 2.688 | .02089 |
| 81. | 3458.569 | 4.048 | .17E-05 | 0.00 | .77E-06 | -121.382 | .25E-05 | 89.500 | .132E+05 | 177.289 | 3385.051 | 2.793 | .02126 |
| 82. | 3462.893 | 4.129 | .17E-05 | 0.00 | .74E-06 | -119.512 | .25E-05 | 89.629 | .133E+05 | 178.397 | 3387.964 | 2.837 | .02164 |
| 83. | 3467.265 | 4.127 | .17E-05 | 0.00 | .69E-06 | -117.498 | .25E-05 | 89.755 | .135E+05 | 179.490 | 3390.886 | 2.807 | .02203 |
| 84. | 3471.589 | 4.023 | .17E-05 | 0.00 | .64E-06 | -115.354 | .25E-05 | 89.875 | .137E+05 | -179.443 | 3393.738 | 2.693 | .02243 |
| 85. | 3475.742 | 3.791 | .17E-05 | 0.00 | .57E-06 | -113.120 | .25E-05 | 89.987 | .139E+05 | -178.424 | 3396.425 | 2.483 | .02282 |
| 86. | 3479.572 | 3.402 | .17E-05 | 0.00 | .49E-06 | -110.875 | .25E-05 | 90.089 | .140E+05 | -177.480 | 3398.844 | 2.170 | .02320 |
| 87. | 3482.895 | 2.827 | .18E-05 | 0.00 | .40E-06 | -108.754 | .26E-05 | 90.176 | .142E+05 | -176.652 | 3400.884 | 1.750 | .02355 |
| 88. | 3485.502 | 2.049 | .18E-05 | 0.00 | .28E-06 | -106.956 | .26E-05 | 90.244 | .144E+05 | -175.993 | 3402.438 | 1.233 | .02383 |
| 89. | 3487.180 | 1.083 | .18E-05 | 0.00 | .15E-06 | -105.728 | .26E-05 | 90.288 | .145E+05 | -175.563 | 3403.413 | .638 | .02402 |
| 90. | 3487.762 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.303 | .145E+05 | -175.413 | 3403.745 | 0.000 | .02409 |
| 91. | 3487.180 | -1.083 | .18E-05 | 0.00 | .15E-06 | 74.272 | .26E-05 | 90.288 | .145E+05 | -175.563 | 3403.413 | -.638 | .02402 |
| 92. | 3485.502 | -2.049 | .18E-05 | 0.00 | .28E-06 | 73.044 | .26E-05 | 90.244 | .144E+05 | -175.993 | 3402.438 | -1.233 | .02383 |
| 93. | 3482.895 | -2.827 | .18E-05 | 0.00 | .40E-06 | 71.246 | .26E-05 | 90.176 | .142E+05 | -176.652 | 3400.884 | -1.750 | .02355 |
| 94. | 3479.572 | -3.402 | .17E-05 | 0.00 | .49E-06 | 69.125 | .25E-05 | 90.089 | .140E+05 | -177.480 | 3398.844 | -2.170 | .02320 |
| 95. | 3475.742 | -3.791 | .17E-05 | 0.00 | .57E-06 | 66.880 | .25E-05 | 89.987 | .139E+05 | -178.424 | 3396.425 | -2.483 | .02282 |
| 96. | 3471.589 | -4.023 | .17E-05 | 0.00 | .64E-06 | 64.646 | .25E-05 | 89.875 | .137E+05 | -179.443 | 3393.738 | -2.693 | .02243 |
| 97. | 3467.265 | -4.127 | .17E-05 | 0.00 | .69E-06 | 62.502 | .25E-05 | 89.755 | .135E+05 | 179.490 | 3390.886 | -2.807 | .02203 |
| 98. | 3462.893 | -4.129 | .17E-05 | 0.00 | .74E-06 | 60.468 | .25E-05 | 89.629 | .133E+05 | 178.397 | 3387.964 | -2.837 | .02164 |
| 99. | 3458.569 | -4.048 | .17E-05 | 0.00 | .77E-06 | 58.618 | .25E-05 | 89.500 | .132E+05 | 177.289 | 3385.051 | -2.793 | .02126 |

Y-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3454.372 | -3.902 | .17E-05 | 0.00 | .81E-06 | 56.895 | .25E-05 | 89.368 | .130E+05 | 176.173 | 3382.220 | -2.688 | .02089 |
| 101. | 3450.363 | -3.703 | .17E-05 | 0.00 | .83E-06 | 55.313 | .25E-05 | 89.236 | .129E+05 | 175.056 | 3379.527 | -2.530 | .02053 |
| 102. | 3446.592 | -3.461 | .17E-05 | 0.00 | .85E-06 | 53.864 | .25E-05 | 89.103 | .127E+05 | 173.939 | 3377.023 | -2.327 | .02018 |
| 103. | 3443.097 | -3.186 | .17E-05 | 0.00 | .87E-06 | 52.535 | .25E-05 | 88.970 | .126E+05 | 172.823 | 3374.748 | -2.088 | .01985 |
| 104. | 3439.911 | -2.883 | .17E-05 | 0.00 | .89E-06 | 51.318 | .25E-05 | 88.839 | .125E+05 | 171.709 | 3372.737 | -1.819 | .01953 |
| 105. | 3437.058 | -2.558 | .17E-05 | 0.00 | .90E-06 | 50.203 | .25E-05 | 88.709 | .124E+05 | 170.596 | 3371.018 | -1.524 | .01921 |
| 106. | 3434.557 | -2.215 | .18E-05 | 0.00 | .92E-06 | 49.179 | .25E-05 | 88.582 | .123E+05 | 169.483 | 3369.614 | -1.208 | .01891 |
| 107. | 3432.425 | -1.858 | .18E-05 | 0.00 | .93E-06 | 48.238 | .25E-05 | 88.457 | .122E+05 | 168.368 | 3368.544 | -.875 | .01861 |
| 108. | 3430.674 | -1.490 | .18E-05 | 0.00 | .94E-06 | 47.374 | .26E-05 | 88.334 | .121E+05 | 167.251 | 3367.822 | -.530 | .01832 |
| 109. | 3429.314 | -1.112 | .18E-05 | 0.00 | .94E-06 | 46.580 | .26E-05 | 88.215 | .120E+05 | 166.129 | 3367.461 | -.174 | .01804 |
| 110. | 3428.352 | -.728 | .18E-05 | 0.00 | .95E-06 | 45.850 | .26E-05 | 88.099 | .119E+05 | 165.001 | 3367.468 | .189 | .01776 |
| 111. | 3427.794 | -.340 | .18E-05 | 0.00 | .95E-06 | 45.179 | .26E-05 | 87.987 | .118E+05 | 163.866 | 3367.850 | .557 | .01749 |
| 112. | 3427.644 | .052 | .19E-05 | 0.00 | .96E-06 | 44.564 | .27E-05 | 87.879 | .117E+05 | 162.722 | 3368.611 | .927 | .01722 |
| 113. | 3427.904 | .446 | .19E-05 | 0.00 | .96E-06 | 44.000 | .27E-05 | 87.774 | .116E+05 | 161.569 | 3369.752 | 1.297 | .01696 |
| 114. | 3428.575 | .840 | .19E-05 | 0.00 | .96E-06 | 43.485 | .27E-05 | 87.675 | .115E+05 | 160.405 | 3371.274 | 1.666 | .01671 |
| 115. | 3429.658 | 1.233 | .19E-05 | 0.00 | .96E-06 | 43.018 | .27E-05 | 87.579 | .114E+05 | 159.230 | 3373.174 | 2.032 | .01647 |
| 116. | 3431.151 | 1.624 | .20E-05 | 0.00 | .96E-06 | 42.596 | .28E-05 | 87.489 | .113E+05 | 158.044 | 3375.450 | 2.393 | .01623 |
| 117. | 3433.053 | 2.012 | .20E-05 | 0.00 | .96E-06 | 42.219 | .28E-05 | 87.403 | .112E+05 | 156.848 | 3378.097 | 2.748 | .01601 |
| 118. | 3435.360 | 2.396 | .20E-05 | 0.00 | .96E-06 | 41.887 | .28E-05 | 87.322 | .111E+05 | 155.640 | 3381.108 | 3.096 | .01579 |
| 119. | 3438.068 | 2.774 | .20E-05 | 0.00 | .95E-06 | 41.599 | .28E-05 | 87.245 | .111E+05 | 154.424 | 3384.478 | 3.436 | .01559 |
| 120. | 3441.173 | 3.145 | .20E-05 | 0.00 | .95E-06 | 41.356 | .29E-05 | 87.174 | .110E+05 | 153.200 | 3388.198 | 3.766 | .01539 |
| 121. | 3444.667 | 3.509 | .20E-05 | 0.00 | .95E-06 | 41.160 | .29E-05 | 87.108 | .109E+05 | 151.970 | 3392.260 | 4.086 | .01521 |
| 122. | 3448.544 | 3.864 | .21E-05 | 0.00 | .94E-06 | 41.012 | .29E-05 | 87.048 | .108E+05 | 150.737 | 3396.653 | 4.395 | .01505 |
| 123. | 3452.796 | 4.210 | .21E-05 | 0.00 | .94E-06 | 40.915 | .29E-05 | 86.989 | .107E+05 | 149.504 | 3401.369 | 4.692 | .01489 |
| 124. | 3457.412 | 4.543 | .21E-05 | 0.00 | .93E-06 | 40.870 | .29E-05 | 86.937 | .107E+05 | 148.273 | 3417.335 | 5.510 | .01159 |
| 125. | 3462.382 | 4.865 | .21E-05 | 0.00 | .93E-06 | 40.880 | .30E-05 | 86.889 | .106E+05 | 147.050 | 9999.999 | 9.999 | .99999 |
| 126. | 3467.695 | 5.173 | .21E-05 | 0.00 | .92E-06 | 40.950 | .30E-05 | 86.846 | .105E+05 | 145.837 | 9999.999 | 9.999 | .99999 |
| 127. | 3473.336 | 5.466 | .21E-05 | 0.00 | .92E-06 | 41.081 | .30E-05 | 86.806 | .105E+05 | 144.639 | 3423.224 | 5.756 | .01443 |
| 128. | 3479.292 | 5.744 | .22E-05 | 0.00 | .91E-06 | 41.279 | .30E-05 | 86.771 | .104E+05 | 143.460 | 3429.376 | 5.989 | .01435 |
| 129. | 3485.547 | 6.004 | .22E-05 | 0.00 | .91E-06 | 41.546 | .30E-05 | 86.739 | .103E+05 | 142.304 | 3435.777 | 6.207 | .01428 |
| 130. | 3492.083 | 6.246 | .22E-05 | 0.00 | .90E-06 | 41.887 | .30E-05 | 86.710 | .103E+05 | 141.176 | 3442.415 | 6.411 | .01422 |
| 131. | 3498.882 | 6.469 | .22E-05 | 0.00 | .90E-06 | 42.304 | .30E-05 | 86.683 | .102E+05 | 140.079 | 3449.275 | 6.602 | .01418 |
| 132. | 3505.924 | 6.671 | .22E-05 | 0.00 | .89E-06 | 42.802 | .31E-05 | 86.659 | .102E+05 | 139.017 | 3456.344 | 6.777 | .01414 |
| 133. | 3513.188 | 6.852 | .22E-05 | 0.00 | .88E-06 | 43.383 | .31E-05 | 86.638 | .101E+05 | 137.993 | 3463.608 | 6.938 | .01411 |
| 134. | 3520.653 | 7.011 | .22E-05 | 0.00 | .88E-06 | 44.049 | .31E-05 | 86.618 | .100E+05 | 137.010 | 3471.052 | 7.085 | .01409 |
| 135. | 3528.295 | 7.148 | .22E-05 | 0.00 | .87E-06 | 44.804 | .31E-05 | 86.599 | .996E+04 | 136.069 | 3478.662 | 7.216 | .01407 |
| 136. | 3536.089 | 7.261 | .23E-05 | 0.00 | .87E-06 | 45.646 | .31E-05 | 86.581 | .989E+04 | 135.172 | 3486.422 | 7.333 | .01405 |
| 137. | 3544.012 | 7.350 | .23E-05 | 0.00 | .86E-06 | 46.577 | .31E-05 | 86.565 | .982E+04 | 134.318 | 3494.318 | 7.435 | .01402 |
| 138. | 3552.039 | 7.416 | .23E-05 | 0.00 | .86E-06 | 47.596 | .31E-05 | 86.548 | .973E+04 | 133.508 | 3502.333 | 7.521 | .01399 |
| 139. | 3560.142 | 7.458 | .23E-05 | 0.00 | .85E-06 | 48.700 | .31E-05 | 86.533 | .964E+04 | 132.739 | 3510.453 | 7.592 | .01396 |
| 140. | 3568.296 | 7.476 | .23E-05 | 0.00 | .85E-06 | 49.884 | .31E-05 | 86.518 | .954E+04 | 132.011 | 3518.661 | 7.648 | .01391 |
| 141. | 3576.480 | 7.472 | .23E-05 | 0.00 | .84E-06 | 51.145 | .31E-05 | 86.504 | .943E+04 | 131.319 | 3526.941 | 7.689 | .01385 |
| 142. | 3584.664 | 7.446 | .23E-05 | 0.00 | .84E-06 | 52.476 | .31E-05 | 86.490 | .931E+04 | 130.661 | 3535.276 | 7.713 | .01378 |
| 143. | 3592.826 | 7.399 | .23E-05 | 0.00 | .84E-06 | 53.869 | .31E-05 | 86.477 | .919E+04 | 130.032 | 3543.649 | 7.722 | .01369 |
| 144. | 3600.943 | 7.333 | .23E-05 | 0.00 | .83E-06 | 55.315 | .31E-05 | 86.466 | .905E+04 | 129.426 | 3552.044 | 7.716 | .01358 |
| 145. | 3608.994 | 7.248 | .23E-05 | 0.00 | .83E-06 | 56.804 | .31E-05 | 86.457 | .890E+04 | 128.842 | 3560.442 | 7.693 | .01345 |
| 146. | 3616.958 | 7.146 | .23E-05 | 0.00 | .82E-06 | 58.325 | .31E-05 | 86.450 | .874E+04 | 128.268 | 3568.826 | 7.655 | .01331 |
| 147. | 3624.817 | 7.030 | .23E-05 | 0.00 | .82E-06 | 59.867 | .31E-05 | 86.446 | .857E+04 | 127.701 | 3577.179 | 7.600 | .01314 |
| 148. | 3632.555 | 6.900 | .23E-05 | 0.00 | .82E-06 | 61.420 | .31E-05 | 86.446 | .840E+04 | 127.134 | 3585.481 | 7.530 | .01296 |
| 149. | 3640.157 | 6.759 | .23E-05 | 0.00 | .81E-06 | 62.970 | .31E-05 | 86.450 | .821E+04 | 126.560 | 3593.717 | 7.444 | .01276 |

Y-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3647.609 | 6.607 | .23E-05 | 0.00 | .81E-06 | 64.509 | .31E-05 | 86.460 | .802E+04 | 125.972 | 3601.867 | 7.343 | .01254 |
| 151. | 3654.901 | 6.447 | .23E-05 | 0.00 | .81E-06 | 66.026 | .31E-05 | 86.475 | .783E+04 | 125.364 | 3609.913 | 7.227 | .01231 |
| 152. | 3662.023 | 6.280 | .23E-05 | 0.00 | .81E-06 | 67.513 | .31E-05 | 86.497 | .763E+04 | 124.730 | 3617.839 | 7.095 | .01207 |
| 153. | 3668.966 | 6.107 | .23E-05 | 0.00 | .80E-06 | 68.960 | .31E-05 | 86.525 | .743E+04 | 124.064 | 3625.626 | 6.949 | .01181 |
| 154. | 3675.723 | 5.929 | .23E-05 | 0.00 | .80E-06 | 70.363 | .31E-05 | 86.561 | .723E+04 | 123.359 | 3633.258 | 6.789 | .01155 |
| 155. | 3682.288 | 5.746 | .23E-05 | 0.00 | .80E-06 | 71.715 | .31E-05 | 86.605 | .704E+04 | 122.611 | 3640.719 | 6.615 | .01129 |
| 156. | 3688.655 | 5.559 | .23E-05 | 0.00 | .79E-06 | 73.014 | .31E-05 | 86.656 | .684E+04 | 121.815 | 3647.992 | 6.429 | .01102 |
| 157. | 3694.818 | 5.368 | .23E-05 | 0.00 | .79E-06 | 74.255 | .31E-05 | 86.719 | .665E+04 | 120.969 | 3655.062 | 6.230 | .01076 |
| 158. | 3700.772 | 5.174 | .23E-05 | 0.00 | .79E-06 | 75.437 | .31E-05 | 86.788 | .647E+04 | 120.069 | 3661.915 | 6.020 | .01050 |
| 159. | 3706.514 | 4.977 | .23E-05 | 0.00 | .79E-06 | 76.559 | .31E-05 | 86.867 | .629E+04 | 119.113 | 3668.537 | 5.798 | .01025 |
| 160. | 3712.038 | 4.776 | .23E-05 | 0.00 | .78E-06 | 77.623 | .31E-05 | 86.954 | .611E+04 | 118.101 | 3674.915 | 5.567 | .01000 |
| 161. | 3717.339 | 4.572 | .23E-05 | 0.00 | .78E-06 | 78.627 | .31E-05 | 87.049 | .595E+04 | 117.032 | 3681.037 | 5.327 | .00977 |
| 162. | 3722.412 | 4.364 | .22E-05 | 0.00 | .77E-06 | 79.575 | .31E-05 | 87.153 | .579E+04 | 115.907 | 3686.893 | 5.078 | .00954 |
| 163. | 3727.252 | 4.152 | .22E-05 | 0.00 | .77E-06 | 80.467 | .31E-05 | 87.265 | .564E+04 | 114.728 | 3692.471 | 4.822 | .00933 |
| 164. | 3731.855 | 3.936 | .22E-05 | 0.00 | .77E-06 | 81.306 | .31E-05 | 87.385 | .551E+04 | 113.498 | 3697.763 | 4.560 | .00914 |
| 165. | 3736.214 | 3.716 | .22E-05 | 0.00 | .76E-06 | 82.095 | .31E-05 | 87.512 | .538E+04 | 112.220 | 3702.762 | 4.291 | .00895 |
| 166. | 3740.324 | 3.492 | .22E-05 | 0.00 | .76E-06 | 82.836 | .31E-05 | 87.647 | .526E+04 | 110.897 | 3707.459 | 4.018 | .00879 |
| 167. | 3744.180 | 3.264 | .22E-05 | 0.00 | .76E-06 | 83.533 | .31E-05 | 87.787 | .515E+04 | 109.534 | 3711.850 | 3.740 | .00863 |
| 168. | 3747.777 | 3.032 | .22E-05 | 0.00 | .75E-06 | 84.188 | .31E-05 | 87.934 | .505E+04 | 108.135 | 3715.928 | 3.459 | .00850 |
| 169. | 3751.108 | 2.796 | .22E-05 | 0.00 | .75E-06 | 84.805 | .31E-05 | 88.087 | .496E+04 | 106.706 | 3719.690 | 3.176 | .00838 |
| 170. | 3754.170 | 2.556 | .22E-05 | 0.00 | .75E-06 | 85.388 | .31E-05 | 88.244 | .488E+04 | 105.249 | 3723.131 | 2.890 | .00827 |
| 171. | 3756.957 | 2.312 | .22E-05 | 0.00 | .74E-06 | 85.938 | .31E-05 | 88.407 | .481E+04 | 103.771 | 3726.250 | 2.603 | .00817 |
| 172. | 3759.463 | 2.065 | .22E-05 | 0.00 | .74E-06 | 86.461 | .31E-05 | 88.573 | .474E+04 | 102.274 | 3729.044 | 2.315 | .00809 |
| 173. | 3761.686 | 1.814 | .22E-05 | 0.00 | .74E-06 | 86.958 | .31E-05 | 88.744 | .469E+04 | 100.763 | 3731.511 | 2.026 | .00802 |
| 174. | 3763.621 | 1.561 | .22E-05 | 0.00 | .74E-06 | 87.433 | .31E-05 | 88.917 | .464E+04 | 99.242 | 3733.651 | 1.736 | .00796 |
| 175. | 3765.265 | 1.305 | .22E-05 | 0.00 | .73E-06 | 87.869 | .31E-05 | 89.093 | .460E+04 | 97.711 | 3735.462 | 1.447 | .00792 |
| 176. | 3766.614 | 1.046 | .22E-05 | 0.00 | .73E-06 | 88.330 | .31E-05 | 89.272 | .457E+04 | 96.175 | 3736.944 | 1.157 | .00788 |
| 177. | 3767.665 | .786 | .22E-05 | 0.00 | .73E-06 | 88.758 | .31E-05 | 89.452 | .454E+04 | 94.634 | 3738.097 | .868 | .00785 |
| 178. | 3768.418 | .525 | .22E-05 | 0.00 | .73E-06 | 89.177 | .31E-05 | 89.634 | .453E+04 | 93.091 | 3738.921 | .578 | .00783 |
| 179. | 3768.870 | .263 | .22E-05 | 0.00 | .73E-06 | 89.590 | .31E-05 | 89.817 | .452E+04 | 91.546 | 3739.415 | .289 | .00782 |
| 180. | 3769.021 | 0.000 | .22E-05 | 0.00 | .73E-06 | 90.000 | .31E-05 | 90.000 | .451E+04 | 90.000 | 3739.580 | 0.000 | .00781 |

Z-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .450E+04 | 90.000 | 3788.193 | 0.000 | .00257 |
| 1. | 3798.047 | .192 | .23E-05 | 0.00 | .86E-06 | 91.275 | .29E-05 | 89.852 | .451E+04 | 92.341 | 3788.276 | .145 | .00257 |
| 2. | 3798.381 | .385 | .23E-05 | 0.00 | .86E-06 | 92.539 | .29E-05 | 89.703 | .453E+04 | 94.661 | 3788.527 | .290 | .00259 |
| 3. | 3798.940 | .580 | .23E-05 | 0.00 | .86E-06 | 93.782 | .29E-05 | 89.552 | .456E+04 | 96.940 | 3788.946 | .436 | .00263 |
| 4. | 3799.724 | .776 | .23E-05 | 0.00 | .87E-06 | 94.994 | .29E-05 | 89.399 | .460E+04 | 99.159 | 3789.534 | .584 | .00268 |
| 5. | 3800.737 | .974 | .23E-05 | 0.00 | .88E-06 | 96.164 | .29E-05 | 89.242 | .466E+04 | 101.301 | 3790.295 | .734 | .00275 |
| 6. | 3801.981 | 1.176 | .23E-05 | 0.00 | .88E-06 | 97.266 | .29E-05 | 89.081 | .474E+04 | 103.349 | 3791.230 | .887 | .00283 |
| 7. | 3803.462 | 1.381 | .23E-05 | 0.00 | .90E-06 | 98.351 | .29E-05 | 88.916 | .482E+04 | 105.291 | 3792.344 | 1.042 | .00292 |
| 8. | 3805.183 | 1.591 | .23E-05 | 0.00 | .91E-06 | 99.353 | .28E-05 | 88.744 | .491E+04 | 107.114 | 3793.640 | 1.202 | .00303 |
| 9. | 3807.152 | 1.806 | .23E-05 | 0.00 | .92E-06 | 100.287 | .28E-05 | 88.566 | .502E+04 | 108.810 | 3795.123 | 1.365 | .00316 |
| 10. | 3809.376 | 2.027 | .23E-05 | 0.00 | .93E-06 | 101.149 | .28E-05 | 88.379 | .514E+04 | 110.370 | 3796.799 | 1.533 | .00330 |
| 11. | 3811.861 | 2.254 | .23E-05 | 0.00 | .94E-06 | 101.936 | .28E-05 | 88.184 | .527E+04 | 111.789 | 3798.673 | 1.706 | .00346 |
| 12. | 3814.616 | 2.489 | .23E-05 | 0.00 | .96E-06 | 102.646 | .28E-05 | 87.979 | .541E+04 | 113.064 | 3800.750 | 1.884 | .00363 |
| 13. | 3817.653 | 2.733 | .23E-05 | 0.00 | .97E-06 | 103.279 | .28E-05 | 87.764 | .556E+04 | 114.191 | 3803.038 | 2.067 | .00383 |
| 14. | 3820.980 | 2.984 | .23E-05 | 0.00 | .98E-06 | 103.835 | .28E-05 | 87.536 | .572E+04 | 115.171 | 3805.543 | 2.255 | .00404 |
| 15. | 3824.610 | 3.245 | .22E-05 | 0.00 | .10E-05 | 104.315 | .28E-05 | 87.295 | .589E+04 | 116.002 | 3808.270 | 2.446 | .00427 |
| 16. | 3828.554 | 3.515 | .22E-05 | 0.00 | .10E-05 | 104.722 | .28E-05 | 87.041 | .608E+04 | 116.687 | 3811.224 | 2.641 | .00453 |
| 17. | 3832.824 | 3.794 | .22E-05 | 0.00 | .10E-05 | 105.058 | .28E-05 | 86.772 | .627E+04 | 117.227 | 3814.407 | 2.837 | .00481 |
| 18. | 3837.431 | 4.080 | .22E-05 | 0.00 | .10E-05 | 105.327 | .28E-05 | 86.488 | .648E+04 | 117.627 | 3817.820 | 3.030 | .00511 |
| 19. | 3842.382 | 4.372 | .22E-05 | 0.00 | .10E-05 | 105.533 | .28E-05 | 86.187 | .671E+04 | 117.890 | 3821.458 | 3.216 | .00545 |
| 20. | 3847.685 | 4.664 | .22E-05 | 0.00 | .10E-05 | 105.681 | .28E-05 | 85.870 | .695E+04 | 118.024 | 3825.311 | 3.389 | .00581 |
| 21. | 3853.338 | 4.951 | .22E-05 | 0.00 | .10E-05 | 105.776 | .28E-05 | 85.537 | .720E+04 | 118.035 | 3829.356 | 3.538 | .00622 |
| 22. | 3859.331 | 5.222 | .22E-05 | 0.00 | .10E-05 | 105.825 | .28E-05 | 85.189 | .748E+04 | 117.933 | 3833.560 | 3.649 | .00668 |
| 23. | 3865.637 | 5.459 | .22E-05 | 0.00 | .10E-05 | 105.835 | .28E-05 | 84.828 | .779E+04 | 117.729 | 3837.869 | 3.705 | .00718 |
| 24. | 3872.202 | 5.634 | .23E-05 | 0.00 | .98E-06 | 105.814 | .28E-05 | 84.457 | .812E+04 | 117.437 | 3842.203 | 3.678 | .00775 |
| 25. | 3878.928 | 5.700 | .23E-05 | 0.00 | .92E-06 | 105.769 | .28E-05 | 84.082 | .849E+04 | 117.077 | 3846.444 | 3.534 | .00837 |
| 26. | 3885.641 | 5.575 | .23E-05 | 0.00 | .84E-06 | 105.712 | .28E-05 | 83.713 | .890E+04 | 116.673 | 3850.432 | 3.232 | .00906 |
| 27. | 3892.039 | 5.125 | .24E-05 | 0.00 | .72E-06 | 105.651 | .29E-05 | 83.366 | .935E+04 | 116.259 | 3853.955 | 2.731 | .00979 |
| 28. | 3897.613 | 4.139 | .24E-05 | 0.00 | .55E-06 | 105.598 | .30E-05 | 83.068 | .981E+04 | 115.883 | 3856.759 | 2.004 | .01048 |
| 29. | 3901.581 | 2.401 | .25E-05 | 0.00 | .30E-06 | 105.562 | .30E-05 | 82.858 | .102E+05 | 115.608 | 3858.582 | 1.067 | .01102 |
| 30. | 3903.050 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .30E-05 | 82.781 | .103E+05 | 115.506 | 3859.216 | 0.000 | .01123 |
| 31. | 3901.581 | -2.401 | .25E-05 | 0.00 | .30E-06 | -74.438 | .30E-05 | 82.858 | .102E+05 | 115.608 | 3858.582 | -1.067 | .01102 |
| 32. | 3897.613 | -4.139 | .24E-05 | 0.00 | .55E-06 | -74.402 | .30E-05 | 83.068 | .981E+04 | 115.883 | 3856.759 | -2.004 | .01048 |
| 33. | 3892.039 | -5.125 | .24E-05 | 0.00 | .72E-06 | -74.349 | .29E-05 | 83.366 | .935E+04 | 116.259 | 3853.955 | -2.731 | .00979 |
| 34. | 3885.641 | -5.575 | .23E-05 | 0.00 | .84E-06 | -74.288 | .28E-05 | 83.713 | .890E+04 | 116.673 | 3850.432 | -3.232 | .00906 |
| 35. | 3878.928 | -5.700 | .23E-05 | 0.00 | .92E-06 | -74.231 | .28E-05 | 84.082 | .849E+04 | 117.077 | 3846.444 | -3.534 | .00837 |
| 36. | 3872.202 | -5.634 | .23E-05 | 0.00 | .98E-06 | -74.186 | .28E-05 | 84.457 | .812E+04 | 117.437 | 3842.203 | -3.678 | .00775 |
| 37. | 3865.637 | -5.459 | .22E-05 | 0.00 | .10E-05 | -74.165 | .28E-05 | 84.828 | .779E+04 | 117.729 | 3837.869 | -3.705 | .00718 |
| 38. | 3859.331 | -5.222 | .22E-05 | 0.00 | .10E-05 | -74.175 | .28E-05 | 85.189 | .748E+04 | 117.933 | 3833.560 | -3.649 | .00668 |
| 39. | 3853.338 | -4.951 | .22E-05 | 0.00 | .10E-05 | -74.224 | .28E-05 | 85.537 | .720E+04 | 118.035 | 3829.356 | -3.538 | .00622 |
| 40. | 3847.685 | -4.664 | .22E-05 | 0.00 | .10E-05 | -74.319 | .28E-05 | 85.870 | .695E+04 | 118.024 | 3825.311 | -3.389 | .00581 |
| 41. | 3842.382 | -4.372 | .22E-05 | 0.00 | .10E-05 | -74.467 | .28E-05 | 86.187 | .671E+04 | 117.890 | 3821.458 | -3.216 | .00545 |
| 42. | 3837.431 | -4.080 | .22E-05 | 0.00 | .10E-05 | -74.673 | .28E-05 | 86.488 | .648E+04 | 117.627 | 3817.820 | -3.030 | .00511 |
| 43. | 3832.824 | -3.794 | .22E-05 | 0.00 | .10E-05 | -74.942 | .28E-05 | 86.772 | .627E+04 | 117.227 | 3814.407 | -2.837 | .00481 |
| 44. | 3828.554 | -3.515 | .22E-05 | 0.00 | .10E-05 | -75.278 | .28E-05 | 87.041 | .608E+04 | 116.687 | 3811.224 | -2.641 | .00453 |
| 45. | 3824.610 | -3.245 | .22E-05 | 0.00 | .10E-05 | -75.685 | .28E-05 | 87.295 | .589E+04 | 116.002 | 3808.270 | -2.446 | .00427 |
| 46. | 3820.980 | -2.984 | .23E-05 | 0.00 | .98E-06 | -76.165 | .28E-05 | 87.536 | .572E+04 | 115.171 | 3805.543 | -2.255 | .00404 |
| 47. | 3817.653 | -2.733 | .23E-05 | 0.00 | .97E-06 | -76.721 | .28E-05 | 87.764 | .556E+04 | 114.191 | 3803.038 | -2.067 | .00383 |
| 48. | 3814.616 | -2.489 | .23E-05 | 0.00 | .96E-06 | -77.354 | .28E-05 | 87.979 | .541E+04 | 113.064 | 3800.750 | -1.884 | .00363 |
| 49. | 3811.861 | -2.254 | .23E-05 | 0.00 | .94E-06 | -78.064 | .28E-05 | 88.184 | .527E+04 | 111.789 | 3798.673 | -1.706 | .00346 |

Z-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3809.376 | -2.027 | .23E-05 | 0.00 | .93E-06 | -78.851 | .28E-05 | 88.379 | .514E+04 | 110.370 | 3795.123 | -1.365 | .00374 |
| 51. | 3807.152 | -1.806 | .23E-05 | 0.00 | .92E-06 | -79.713 | .28E-05 | 88.566 | .502E+04 | 108.810 | 9999.999 | 9.999 | .99999 |
| 52. | 3805.183 | -1.591 | .23E-05 | 0.00 | .91E-06 | -80.647 | .28E-05 | 88.744 | .491E+04 | 107.114 | 3793.640 | -1.202 | .00303 |
| 53. | 3803.462 | -1.381 | .23E-05 | 0.00 | .90E-06 | -81.649 | .29E-05 | 88.916 | .482E+04 | 105.291 | 3792.344 | -1.042 | .00292 |
| 54. | 3801.981 | -1.176 | .23E-05 | 0.00 | .88E-06 | -82.714 | .29E-05 | 89.081 | .474E+04 | 103.349 | 3791.230 | -.887 | .00283 |
| 55. | 3800.737 | -.974 | .23E-05 | 0.00 | .88E-06 | -83.836 | .29E-05 | 89.242 | .466E+04 | 101.301 | 3790.295 | -.734 | .00275 |
| 56. | 3799.724 | -.776 | .23E-05 | 0.00 | .87E-06 | -85.006 | .29E-05 | 89.399 | .460E+04 | 99.159 | 3789.534 | -.584 | .00268 |
| 57. | 3798.940 | -.580 | .23E-05 | 0.00 | .86E-06 | -86.218 | .29E-05 | 89.552 | .456E+04 | 96.940 | 3788.946 | -.436 | .00263 |
| 58. | 3798.381 | -.385 | .23E-05 | 0.00 | .86E-06 | -87.461 | .29E-05 | 89.703 | .453E+04 | 94.661 | 3788.527 | -.290 | .00259 |
| 59. | 3798.047 | -.192 | .23E-05 | 0.00 | .86E-06 | -88.725 | .29E-05 | 89.852 | .451E+04 | 92.341 | 3788.276 | -.145 | .00257 |
| 60. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | -90.000 | .29E-05 | 90.000 | .450E+04 | 90.000 | 3788.193 | 0.000 | .00257 |
| 61. | 3798.047 | .192 | .23E-05 | 0.00 | .86E-06 | -91.275 | .29E-05 | 90.148 | .451E+04 | 87.659 | 3788.276 | .145 | .00257 |
| 62. | 3798.381 | .385 | .23E-05 | 0.00 | .86E-06 | -92.539 | .29E-05 | 90.297 | .453E+04 | 85.339 | 3788.527 | .290 | .00259 |
| 63. | 3798.940 | .580 | .23E-05 | 0.00 | .86E-06 | -93.782 | .29E-05 | 90.448 | .456E+04 | 83.060 | 3788.946 | .436 | .00263 |
| 64. | 3799.724 | .776 | .23E-05 | 0.00 | .87E-06 | -94.994 | .29E-05 | 90.601 | .460E+04 | 80.841 | 3789.534 | .584 | .00268 |
| 65. | 3800.737 | .974 | .23E-05 | 0.00 | .88E-06 | -96.164 | .29E-05 | 90.758 | .466E+04 | 78.699 | 3790.295 | .734 | .00275 |
| 66. | 3801.981 | 1.176 | .23E-05 | 0.00 | .88E-06 | -97.286 | .29E-05 | 90.919 | .474E+04 | 76.651 | 3791.230 | .887 | .00283 |
| 67. | 3803.462 | 1.381 | .23E-05 | 0.00 | .90E-06 | -98.351 | .29E-05 | 91.084 | .482E+04 | 74.709 | 3792.344 | 1.042 | .00292 |
| 68. | 3805.183 | 1.591 | .23E-05 | 0.00 | .91E-06 | -99.353 | .28E-05 | 91.256 | .491E+04 | 72.886 | 3793.640 | 1.202 | .00303 |
| 69. | 3807.152 | 1.806 | .23E-05 | 0.00 | .92E-06 | -100.287 | .28E-05 | 91.434 | .502E+04 | 71.190 | 3795.123 | 1.365 | .00316 |
| 70. | 3809.376 | 2.027 | .23E-05 | 0.00 | .93E-06 | -101.149 | .28E-05 | 91.621 | .514E+04 | 69.630 | 3796.799 | 1.533 | .00330 |
| 71. | 3811.861 | 2.254 | .23E-05 | 0.00 | .94E-06 | -101.936 | .28E-05 | 91.816 | .527E+04 | 68.211 | 3798.673 | 1.706 | .00346 |
| 72. | 3814.616 | 2.489 | .23E-05 | 0.00 | .96E-06 | -102.646 | .28E-05 | 92.021 | .541E+04 | 66.936 | 3800.750 | 1.884 | .00363 |
| 73. | 3817.653 | 2.733 | .23E-05 | 0.00 | .97E-06 | -103.279 | .28E-05 | 92.236 | .556E+04 | 65.809 | 3803.038 | 2.067 | .00383 |
| 74. | 3820.980 | 2.984 | .23E-05 | 0.00 | .98E-06 | -103.835 | .28E-05 | 92.464 | .572E+04 | 64.829 | 3805.543 | 2.255 | .00404 |
| 75. | 3824.610 | 3.245 | .22E-05 | 0.00 | .10E-05 | -104.315 | .28E-05 | 92.705 | .589E+04 | 63.998 | 3808.270 | 2.446 | .00427 |
| 76. | 3828.554 | 3.515 | .22E-05 | 0.00 | .10E-05 | -104.722 | .28E-05 | 92.959 | .608E+04 | 63.313 | 3811.224 | 2.641 | .00453 |
| 77. | 3832.824 | 3.794 | .22E-05 | 0.00 | .10E-05 | -105.058 | .28E-05 | 93.228 | .627E+04 | 62.773 | 3814.407 | 2.837 | .00481 |
| 78. | 3837.431 | 4.080 | .22E-05 | 0.00 | .10E-05 | -105.327 | .28E-05 | 93.512 | .648E+04 | 62.373 | 3817.820 | 3.030 | .00511 |
| 79. | 3842.382 | 4.372 | .22E-05 | 0.00 | .10E-05 | -105.533 | .28E-05 | 93.813 | .671E+04 | 62.110 | 3821.458 | 3.216 | .00545 |
| 80. | 3847.685 | 4.664 | .22E-05 | 0.00 | .10E-05 | -105.681 | .28E-05 | 94.130 | .695E+04 | 61.976 | 3825.311 | 3.389 | .00581 |
| 81. | 3853.338 | 4.951 | .22E-05 | 0.00 | .10E-05 | -105.776 | .28E-05 | 94.463 | .720E+04 | 61.965 | 3829.356 | 3.538 | .00622 |
| 82. | 3859.331 | 5.222 | .22E-05 | 0.00 | .10E-05 | -105.825 | .28E-05 | 94.811 | .748E+04 | 62.067 | 3833.560 | 3.649 | .00668 |
| 83. | 3865.637 | 5.459 | .22E-05 | 0.00 | .10E-05 | -105.835 | .28E-05 | 95.172 | .779E+04 | 62.271 | 3837.869 | 3.705 | .00718 |
| 84. | 3872.202 | 5.634 | .23E-05 | 0.00 | .98E-06 | -105.814 | .28E-05 | 95.543 | .812E+04 | 62.563 | 3842.203 | 3.678 | .00775 |
| 85. | 3878.928 | 5.700 | .23E-05 | 0.00 | .92E-06 | -105.769 | .28E-05 | 95.918 | .849E+04 | 62.923 | 3846.444 | 3.534 | .00837 |
| 86. | 3885.641 | 5.575 | .23E-05 | 0.00 | .84E-06 | -105.712 | .28E-05 | 96.287 | .890E+04 | 63.327 | 3850.432 | 3.232 | .00906 |
| 87. | 3892.039 | 5.125 | .24E-05 | 0.00 | .72E-06 | -105.651 | .29E-05 | 96.634 | .935E+04 | 63.741 | 3853.955 | 2.731 | .00979 |
| 88. | 3897.613 | 4.139 | .24E-05 | 0.00 | .55E-06 | -105.598 | .30E-05 | 96.932 | .981E+04 | 64.117 | 3856.759 | 2.004 | .01048 |
| 89. | 3901.581 | 2.401 | .25E-05 | 0.00 | .30E-06 | -105.562 | .30E-05 | 97.142 | .102E+05 | 64.392 | 3858.582 | 1.067 | .01102 |
| 90. | 3903.050 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .30E-05 | 97.219 | .103E+05 | 64.494 | 3859.216 | 0.000 | .01123 |
| 91. | 3901.581 | -2.401 | .25E-05 | 0.00 | .30E-06 | 74.438 | .30E-05 | 97.142 | .102E+05 | 64.392 | 3858.582 | -1.067 | .01102 |
| 92. | 3897.613 | -4.139 | .24E-05 | 0.00 | .55E-06 | 74.402 | .30E-05 | 96.932 | .981E+04 | 64.117 | 3856.759 | -2.004 | .01048 |
| 93. | 3892.039 | -5.125 | .24E-05 | 0.00 | .72E-06 | 74.349 | .29E-05 | 96.634 | .935E+04 | 63.741 | 3853.955 | -2.731 | .00979 |
| 94. | 3885.641 | -5.575 | .23E-05 | 0.00 | .84E-06 | 74.288 | .28E-05 | 96.287 | .890E+04 | 63.327 | 3850.432 | -3.232 | .00906 |
| 95. | 3878.928 | -5.700 | .23E-05 | 0.00 | .92E-06 | 74.231 | .28E-05 | 95.918 | .849E+04 | 62.923 | 3846.444 | -3.534 | .00837 |
| 96. | 3872.202 | -5.634 | .23E-05 | 0.00 | .98E-06 | 74.186 | .28E-05 | 95.543 | .812E+04 | 62.563 | 3842.203 | -3.678 | .00775 |
| 97. | 3865.637 | -5.459 | .22E-05 | 0.00 | .10E-05 | 74.165 | .28E-05 | 95.172 | .779E+04 | 62.271 | 3837.869 | -3.705 | .00718 |
| 98. | 3859.331 | -5.222 | .22E-05 | 0.00 | .10E-05 | 74.175 | .28E-05 | 94.811 | .748E+04 | 62.067 | 3833.560 | -3.649 | .00668 |
| 99. | 3853.338 | -4.951 | .22E-05 | 0.00 | .10E-05 | 74.224 | .28E-05 | 94.463 | .720E+04 | 61.965 | 3829.356 | -3.538 | .00622 |

Z-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3847.685 | -4.664 | .22E-05 | 0.00 | .10E-05 | 74.319 | .28E-05 | 94.130 | .695E+04 | 61.976 | 3825.311 | -3.389 | .00581 |
| 101. | 3842.382 | -4.372 | .22E-05 | 0.00 | .10E-05 | 74.467 | .28E-05 | 93.813 | .671E+04 | 62.110 | 3821.458 | -3.216 | .00545 |
| 102. | 3837.431 | -4.080 | .22E-05 | 0.00 | .10E-05 | 74.673 | .28E-05 | 93.512 | .648E+04 | 62.373 | 3817.820 | -3.030 | .00511 |
| 103. | 3832.824 | -3.794 | .22E-05 | 0.00 | .10E-05 | 74.942 | .28E-05 | 93.228 | .627E+04 | 62.773 | 3814.407 | -2.837 | .00481 |
| 104. | 3828.554 | -3.515 | .22E-05 | 0.00 | .10E-05 | 75.278 | .28E-05 | 92.959 | .608E+04 | 63.313 | 3811.224 | -2.641 | .00453 |
| 105. | 3824.610 | -3.245 | .22E-05 | 0.00 | .10E-05 | 75.685 | .28E-05 | 92.705 | .589E+04 | 63.998 | 3808.270 | -2.446 | .00427 |
| 106. | 3820.980 | -2.984 | .23E-05 | 0.00 | .98E-06 | 76.165 | .28E-05 | 92.464 | .572E+04 | 64.829 | 3805.543 | -2.255 | .00404 |
| 107. | 3817.653 | -2.733 | .23E-05 | 0.00 | .97E-06 | 76.721 | .28E-05 | 92.236 | .556E+04 | 65.809 | 3803.038 | -2.067 | .00383 |
| 108. | 3814.616 | -2.489 | .23E-05 | 0.00 | .96E-06 | 77.354 | .28E-05 | 92.021 | .541E+04 | 66.936 | 3800.750 | -1.884 | .00363 |
| 109. | 3811.861 | -2.254 | .23E-05 | 0.00 | .94E-06 | 78.064 | .28E-05 | 91.816 | .527E+04 | 68.211 | 3798.673 | -1.706 | .00346 |
| 110. | 3809.376 | -2.027 | .23E-05 | 0.00 | .93E-06 | 78.851 | .28E-05 | 91.621 | .514E+04 | 69.630 | 3796.799 | -1.533 | .00330 |
| 111. | 3807.152 | -1.806 | .23E-05 | 0.00 | .92E-06 | 79.713 | .28E-05 | 91.434 | .502E+04 | 71.190 | 3795.123 | -1.365 | .00316 |
| 112. | 3805.183 | -1.591 | .23E-05 | 0.00 | .91E-06 | 80.647 | .28E-05 | 91.256 | .491E+04 | 72.886 | 3793.640 | -1.202 | .00303 |
| 113. | 3803.462 | -1.381 | .23E-05 | 0.00 | .90E-06 | 81.649 | .29E-05 | 91.084 | .482E+04 | 74.709 | 3792.344 | -1.042 | .00292 |
| 114. | 3801.981 | -1.176 | .23E-05 | 0.00 | .88E-06 | 82.714 | .29E-05 | 90.919 | .474E+04 | 76.651 | 3791.230 | -.887 | .00283 |
| 115. | 3800.737 | -.974 | .23E-05 | 0.00 | .88E-06 | 83.836 | .29E-05 | 90.758 | .466E+04 | 78.699 | 3790.295 | -.734 | .00275 |
| 116. | 3799.724 | -.776 | .23E-05 | 0.00 | .87E-06 | 85.006 | .29E-05 | 90.601 | .460E+04 | 80.841 | 3789.534 | -.584 | .00268 |
| 117. | 3798.940 | -.580 | .23E-05 | 0.00 | .86E-06 | 86.218 | .29E-05 | 90.448 | .456E+04 | 83.060 | 3788.946 | -.436 | .00263 |
| 118. | 3798.381 | -.385 | .23E-05 | 0.00 | .86E-06 | 87.461 | .29E-05 | 90.297 | .453E+04 | 85.339 | 3788.527 | -.290 | .00259 |
| 119. | 3798.047 | -.192 | .23E-05 | 0.00 | .86E-06 | 88.725 | .29E-05 | 90.148 | .451E+04 | 87.659 | 3788.276 | -.145 | .00257 |
| 120. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .450E+04 | 90.000 | 3788.193 | 0.000 | .00257 |
| 121. | 3798.047 | .192 | .23E-05 | 0.00 | .86E-06 | 91.275 | .29E-05 | 89.852 | .451E+04 | 92.341 | 3788.276 | .145 | .00257 |
| 122. | 3798.381 | .385 | .23E-05 | 0.00 | .86E-06 | 92.539 | .29E-05 | 89.703 | .453E+04 | 94.661 | 3788.527 | .290 | .00259 |
| 123. | 3798.940 | .580 | .23E-05 | 0.00 | .86E-06 | 93.782 | .29E-05 | 89.552 | .456E+04 | 96.940 | 3788.946 | .436 | .00263 |
| 124. | 3799.724 | .776 | .23E-05 | 0.00 | .87E-06 | 94.994 | .29E-05 | 89.399 | .460E+04 | 99.159 | 3789.534 | .584 | .00268 |
| 125. | 3800.737 | .974 | .23E-05 | 0.00 | .88E-06 | 96.164 | .29E-05 | 89.242 | .466E+04 | 101.301 | 3790.295 | .734 | .00275 |
| 126. | 3801.981 | 1.176 | .23E-05 | 0.00 | .88E-06 | 97.286 | .29E-05 | 89.081 | .474E+04 | 103.349 | 3791.230 | .887 | .00283 |
| 127. | 3803.462 | 1.381 | .23E-05 | 0.00 | .90E-06 | 98.351 | .29E-05 | 88.916 | .482E+04 | 105.291 | 3792.344 | 1.042 | .00292 |
| 128. | 3805.183 | 1.591 | .23E-05 | 0.00 | .91E-06 | 99.353 | .28E-05 | 88.744 | .491E+04 | 107.114 | 3793.640 | 1.202 | .00303 |
| 129. | 3807.152 | 1.806 | .23E-05 | 0.00 | .92E-06 | 100.287 | .28E-05 | 88.566 | .502E+04 | 108.810 | 3795.123 | 1.365 | .00316 |
| 130. | 3809.376 | 2.027 | .23E-05 | 0.00 | .93E-06 | 101.149 | .28E-05 | 88.379 | .514E+04 | 110.370 | 3796.799 | 1.533 | .00330 |
| 131. | 3811.861 | 2.254 | .23E-05 | 0.00 | .94E-06 | 101.936 | .28E-05 | 88.184 | .527E+04 | 111.789 | 3798.673 | 1.706 | .00346 |
| 132. | 3814.616 | 2.489 | .23E-05 | 0.00 | .96E-06 | 102.646 | .28E-05 | 87.979 | .541E+04 | 113.064 | 3800.750 | 1.884 | .00363 |
| 133. | 3817.653 | 2.733 | .23E-05 | 0.00 | .97E-06 | 103.279 | .28E-05 | 87.764 | .556E+04 | 114.191 | 3803.038 | 2.067 | .00383 |
| 134. | 3820.980 | 2.984 | .23E-05 | 0.00 | .98E-06 | 103.835 | .28E-05 | 87.536 | .572E+04 | 115.171 | 3805.543 | 2.255 | .00404 |
| 135. | 3824.610 | 3.245 | .22E-05 | 0.00 | .10E-05 | 104.315 | .28E-05 | 87.295 | .589E+04 | 116.002 | 3808.270 | 2.446 | .00427 |
| 136. | 3828.554 | 3.515 | .22E-05 | 0.00 | .10E-05 | 104.722 | .28E-05 | 87.041 | .608E+04 | 116.687 | 3811.224 | 2.641 | .00453 |
| 137. | 3832.824 | 3.794 | .22E-05 | 0.00 | .10E-05 | 105.056 | .28E-05 | 86.772 | .627E+04 | 117.227 | 3814.407 | 2.837 | .00481 |
| 138. | 3837.431 | 4.080 | .22E-05 | 0.00 | .10E-05 | 105.327 | .28E-05 | 86.488 | .648E+04 | 117.627 | 3817.820 | 3.030 | .00511 |
| 139. | 3842.382 | 4.372 | .22E-05 | 0.00 | .10E-05 | 105.533 | .28E-05 | 86.187 | .671E+04 | 117.890 | 3821.458 | 3.216 | .00545 |
| 140. | 3847.685 | 4.664 | .22E-05 | 0.00 | .10E-05 | 105.681 | .28E-05 | 85.870 | .695E+04 | 118.024 | 3825.311 | 3.389 | .00581 |
| 141. | 3853.338 | 4.961 | .22E-05 | 0.00 | .10E-05 | 105.776 | .28E-05 | 85.537 | .720E+04 | 118.035 | 3829.356 | 3.538 | .00622 |
| 142. | 3859.331 | 5.262 | .22E-05 | 0.00 | .10E-05 | 105.825 | .28E-05 | 85.189 | .748E+04 | 117.933 | 3833.560 | 3.649 | .00668 |
| 143. | 3865.637 | 5.569 | .22E-05 | 0.00 | .10E-05 | 105.835 | .28E-05 | 84.828 | .779E+04 | 117.729 | 3837.869 | 3.705 | .00718 |
| 144. | 3872.202 | 5.634 | .23E-05 | 0.00 | .98E-06 | 105.814 | .28E-05 | 84.457 | .812E+04 | 117.437 | 3842.203 | 3.678 | .00775 |
| 145. | 3878.928 | 5.700 | .23E-05 | 0.00 | .92E-06 | 105.769 | .28E-05 | 84.082 | .849E+04 | 117.077 | 3846.444 | 3.534 | .00837 |
| 146. | 3885.641 | 5.575 | .23E-05 | 0.00 | .84E-06 | 105.712 | .28E-05 | 83.713 | .890E+04 | 116.673 | 3850.432 | 3.232 | .00906 |
| 147. | 3892.039 | 5.125 | .24E-05 | 0.00 | .72E-06 | 105.651 | .29E-05 | 83.366 | .935E+04 | 116.259 | 3853.955 | 2.731 | .00979 |
| 148. | 3897.613 | 4.139 | .24E-05 | 0.00 | .55E-06 | 105.598 | .30E-05 | 83.068 | .981E+04 | 115.883 | 3856.759 | 2.004 | .01048 |
| 149. | 3901.581 | 2.401 | .25E-05 | 0.00 | .30E-06 | 105.562 | .30E-05 | 82.858 | .102E+05 | 115.608 | 3858.582 | 1.067 | .01102 |

Z-CUT LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3903.050 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .30E-05 | 82.761 | .103E+05 | 115.506 | 3859.216 | 0.000 | .01123 |
| 151. | 3901.581 | -2.401 | .25E-05 | 0.00 | .30E-06 | -74.438 | .30E-05 | 82.858 | .102E+05 | 115.608 | 3858.582 | -1.067 | .01102 |
| 152. | 3897.613 | -4.139 | .24E-05 | 0.00 | .55E-06 | -74.402 | .30E-05 | 83.068 | .981E+04 | 115.883 | 3856.759 | -2.004 | .01048 |
| 153. | 3892.039 | -5.125 | .24E-05 | 0.00 | .72E-06 | -74.349 | .29E-05 | 83.366 | .935E+04 | 116.259 | 3853.955 | -2.731 | .00979 |
| 154. | 3885.641 | -5.575 | .23E-05 | 0.00 | .84E-06 | -74.288 | .28E-05 | 83.713 | .890E+04 | 116.673 | 3850.432 | -3.232 | .00906 |
| 155. | 3878.928 | -5.700 | .23E-05 | 0.00 | .92E-06 | -74.231 | .28E-05 | 84.082 | .849E+04 | 117.077 | 3846.444 | -3.534 | .00837 |
| 156. | 3872.202 | -5.634 | .23E-05 | 0.00 | .98E-06 | -74.186 | .28E-05 | 84.457 | .812E+04 | 117.437 | 3842.203 | -3.678 | .00775 |
| 157. | 3865.637 | -5.459 | .22E-05 | 0.00 | .10E-05 | -74.165 | .28E-05 | 84.828 | .779E+04 | 117.729 | 3837.869 | -3.705 | .00718 |
| 158. | 3859.331 | -5.222 | .22E-05 | 0.00 | .10E-05 | -74.175 | .28E-05 | 85.189 | .748E+04 | 117.933 | 3833.560 | -3.649 | .00668 |
| 159. | 3853.338 | -4.951 | .22E-05 | 0.00 | .10E-05 | -74.224 | .28E-05 | 85.537 | .720E+04 | 118.035 | 3829.356 | -3.538 | .00622 |
| 160. | 3847.685 | -4.664 | .22E-05 | 0.00 | .10E-05 | -74.319 | .28E-05 | 85.870 | .695E+04 | 118.024 | 3825.311 | -3.389 | .00581 |
| 161. | 3842.382 | -4.372 | .22E-05 | 0.00 | .10E-05 | -74.467 | .28E-05 | 86.187 | .671E+04 | 117.890 | 3821.458 | -3.216 | .00545 |
| 162. | 3837.431 | -4.080 | .22E-05 | 0.00 | .10E-05 | -74.673 | .28E-05 | 86.488 | .648E+04 | 117.627 | 3817.820 | -3.030 | .00511 |
| 163. | 3832.824 | -3.794 | .22E-05 | 0.00 | .10E-05 | -74.942 | .28E-05 | 86.772 | .627E+04 | 117.227 | 3814.407 | -2.837 | .00481 |
| 164. | 3828.554 | -3.515 | .22E-05 | 0.00 | .10E-05 | -75.278 | .28E-05 | 87.041 | .608E+04 | 116.687 | 3811.224 | -2.641 | .00453 |
| 165. | 3824.610 | -3.245 | .22E-05 | 0.00 | .10E-05 | -75.685 | .28E-05 | 87.295 | .589E+04 | 116.002 | 3808.270 | -2.446 | .00427 |
| 166. | 3820.980 | -2.984 | .23E-05 | 0.00 | .98E-06 | -76.165 | .28E-05 | 87.536 | .572E+04 | 115.171 | 3805.543 | -2.255 | .00404 |
| 167. | 3817.653 | -2.733 | .23E-05 | 0.00 | .97E-06 | -76.721 | .28E-05 | 87.764 | .556E+04 | 114.191 | 3803.038 | -2.067 | .00383 |
| 168. | 3814.616 | -2.489 | .23E-05 | 0.00 | .96E-06 | -77.354 | .28E-05 | 87.979 | .541E+04 | 113.064 | 3800.750 | -1.884 | .00363 |
| 169. | 3811.861 | -2.254 | .23E-05 | 0.00 | .94E-06 | -78.064 | .28E-05 | 88.184 | .527E+04 | 111.789 | 3798.673 | -1.706 | .00346 |
| 170. | 3809.376 | -2.027 | .23E-05 | 0.00 | .93E-06 | -78.851 | .28E-05 | 88.379 | .514E+04 | 110.370 | 3796.799 | -1.533 | .00330 |
| 171. | 3807.152 | -1.806 | .23E-05 | 0.00 | .92E-06 | -79.713 | .28E-05 | 88.566 | .502E+04 | 108.810 | 3795.123 | -1.365 | .00316 |
| 172. | 3805.183 | -1.591 | .23E-05 | 0.00 | .91E-06 | -80.647 | .28E-05 | 88.744 | .491E+04 | 107.114 | 3793.640 | -1.202 | .00303 |
| 173. | 3803.462 | -1.381 | .23E-05 | 0.00 | .90E-06 | -81.649 | .29E-05 | 88.916 | .482E+04 | 105.291 | 3792.344 | -1.042 | .00292 |
| 174. | 3801.981 | -1.176 | .23E-05 | 0.00 | .88E-06 | -82.714 | .29E-05 | 89.081 | .474E+04 | 103.349 | 3791.230 | -.887 | .00283 |
| 175. | 3800.737 | -.974 | .23E-05 | 0.00 | .88E-06 | -83.836 | .29E-05 | 89.242 | .466E+04 | 101.301 | 3790.295 | -.734 | .00275 |
| 176. | 3799.724 | -.776 | .23E-05 | 0.00 | .87E-06 | -85.006 | .29E-05 | 89.399 | .460E+04 | 99.159 | 3789.534 | -.584 | .00268 |
| 177. | 3798.940 | -.580 | .23E-05 | 0.00 | .86E-06 | -86.218 | .29E-05 | 89.552 | .456E+04 | 96.940 | 3788.946 | -.436 | .00263 |
| 178. | 3798.381 | -.385 | .23E-05 | 0.00 | .86E-06 | -87.461 | .29E-05 | 89.703 | .453E+04 | 94.661 | 3788.527 | -.290 | .00259 |
| 179. | 3798.047 | -.192 | .23E-05 | 0.00 | .86E-06 | -88.725 | .29E-05 | 89.852 | .451E+04 | 92.341 | 3788.276 | -.145 | .00257 |
| 180. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | -90.000 | .29E-05 | 90.000 | .450E+04 | 90.000 | 3788.193 | 0.000 | .00257 |

X-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .450E+04 | 90.000 | 3788.193 | 0.000 | .00257 |
| 1. | 3802.352 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .478E+04 | 90.000 | 3791.354 | 0.000 | .00289 |
| 2. | 3806.822 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .506E+04 | 90.000 | 3794.484 | 0.000 | .00324 |
| 3. | 3811.347 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .534E+04 | 90.000 | 3797.586 | 0.000 | .00361 |
| 4. | 3815.928 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .562E+04 | 90.000 | 3800.662 | 0.000 | .00400 |
| 5. | 3820.567 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .591E+04 | 90.000 | 3803.713 | 0.000 | .00441 |
| 6. | 3825.265 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .619E+04 | 90.000 | 3806.742 | 0.000 | .00484 |
| 7. | 3830.023 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .647E+04 | 90.000 | 3809.752 | 0.000 | .00529 |
| 8. | 3834.842 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .675E+04 | 90.000 | 3812.744 | 0.000 | .00576 |
| 9. | 3839.725 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .703E+04 | 90.000 | 3815.722 | 0.000 | .00625 |
| 10. | 3844.671 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .731E+04 | 90.000 | 3818.687 | 0.000 | .00676 |
| 11. | 3849.682 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .759E+04 | 90.000 | 3821.641 | 0.000 | .00728 |
| 12. | 3854.759 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .787E+04 | 90.000 | 3824.586 | 0.000 | .00783 |
| 13. | 3859.902 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .814E+04 | 90.000 | 3827.522 | 0.000 | .00839 |
| 14. | 3865.111 | 0.000 | .24E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .842E+04 | 90.000 | 3830.452 | 0.000 | .00897 |
| 15. | 3870.388 | 0.000 | .24E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .870E+04 | 90.000 | 3833.376 | 0.000 | .00956 |
| 16. | 3875.731 | 0.000 | .24E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .897E+04 | 90.000 | 3836.293 | 0.000 | .01018 |
| 17. | 3881.140 | 0.000 | .24E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .925E+04 | 90.000 | 3839.202 | 0.000 | .01081 |
| 18. | 3886.613 | 0.000 | .24E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .952E+04 | 90.000 | 3842.103 | 0.000 | .01145 |
| 19. | 3892.151 | 0.000 | .24E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .980E+04 | 90.000 | 3844.993 | 0.000 | .01212 |
| 20. | 3897.749 | 0.000 | .24E-05 | 0.00 | .86E-06 | 90.000 | .28E-05 | 90.000 | .101E+05 | 90.000 | 3847.869 | 0.000 | .01280 |
| 21. | 3903.405 | 0.000 | .24E-05 | 0.00 | .85E-06 | 90.000 | .28E-05 | 90.000 | .103E+05 | 90.000 | 3850.728 | 0.000 | .01350 |
| 22. | 3909.115 | 0.000 | .24E-05 | 0.00 | .85E-06 | 90.000 | .28E-05 | 90.000 | .106E+05 | 90.000 | 3853.566 | 0.000 | .01421 |
| 23. | 3914.873 | 0.000 | .24E-05 | 0.00 | .84E-06 | 90.000 | .28E-05 | 90.000 | .109E+05 | 90.000 | 3856.375 | 0.000 | .01494 |
| 24. | 3920.674 | 0.000 | .24E-05 | 0.00 | .83E-06 | 90.000 | .28E-05 | 90.000 | .112E+05 | 90.000 | 3859.151 | 0.000 | .01569 |
| 25. | 3926.508 | 0.000 | .24E-05 | 0.00 | .82E-06 | 90.000 | .28E-05 | 90.000 | .115E+05 | 90.000 | 3861.884 | 0.000 | .01646 |
| 26. | 3932.366 | 0.000 | .25E-05 | 0.00 | .80E-06 | 90.000 | .28E-05 | 90.000 | .118E+05 | 90.000 | 3864.567 | 0.000 | .01724 |
| 27. | 3938.236 | 0.000 | .25E-05 | 0.00 | .79E-06 | 90.000 | .28E-05 | 90.000 | .120E+05 | 90.000 | 3867.188 | 0.000 | .01804 |
| 28. | 3944.101 | 0.000 | .25E-05 | 0.00 | .76E-06 | 90.000 | .28E-05 | 90.000 | .123E+05 | 90.000 | 3869.738 | 0.000 | .01885 |
| 29. | 3949.943 | 0.000 | .25E-05 | 0.00 | .74E-06 | 90.000 | .28E-05 | 90.000 | .126E+05 | 90.000 | 3872.203 | 0.000 | .01968 |
| 30. | 3955.737 | 0.000 | .25E-05 | 0.00 | .71E-06 | 90.000 | .29E-05 | 90.000 | .129E+05 | 90.000 | 3874.569 | 0.000 | .02052 |
| 31. | 3961.454 | 0.000 | .25E-05 | 0.00 | .67E-06 | 90.000 | .29E-05 | 90.000 | .132E+05 | 90.000 | 3876.822 | 0.000 | .02136 |
| 32. | 3967.058 | 0.000 | .26E-05 | 0.00 | .63E-06 | 90.000 | .29E-05 | 90.000 | .135E+05 | 90.000 | 3878.946 | 0.000 | .02221 |
| 33. | 3972.502 | 0.000 | .26E-05 | 0.00 | .58E-06 | 90.000 | .29E-05 | 90.000 | .138E+05 | 90.000 | 3880.924 | 0.000 | .02305 |
| 34. | 3977.729 | 0.000 | .26E-05 | 0.00 | .52E-06 | 90.000 | .29E-05 | 90.000 | .141E+05 | 90.000 | 3882.738 | 0.000 | .02388 |
| 35. | 3982.668 | 0.000 | .27E-05 | 0.00 | .45E-06 | 90.000 | .30E-05 | 90.000 | .143E+05 | 90.000 | 3884.371 | 0.000 | .02468 |
| 36. | 3987.232 | 0.000 | .27E-05 | 0.00 | .37E-06 | 90.000 | .30E-05 | 90.000 | .146E+05 | 90.000 | 3885.805 | 0.000 | .02544 |
| 37. | 3991.317 | 0.000 | .27E-05 | 0.00 | .28E-06 | 90.000 | .30E-05 | 90.000 | .148E+05 | 90.000 | 3887.021 | 0.000 | .02613 |
| 38. | 3994.801 | 0.000 | .27E-05 | 0.00 | .17E-06 | 90.000 | .31E-05 | 90.000 | .150E+05 | 90.000 | 3888.002 | 0.000 | .02673 |
| 39. | 3997.556 | 0.000 | .28E-05 | 0.00 | .44E-07 | 90.000 | .31E-05 | 90.000 | .151E+05 | 90.000 | 3888.733 | 0.000 | .02722 |
| 40. | 3999.456 | 0.000 | .28E-05 | 0.00 | .91E-07 | -90.000 | .31E-05 | 90.000 | .151E+05 | 90.000 | 3889.198 | 0.000 | .02757 |
| 41. | 4000.402 | 0.000 | .28E-05 | 0.00 | .23E-06 | -90.000 | .31E-05 | 90.000 | .150E+05 | 90.000 | 3889.387 | 0.000 | .02775 |
| 42. | 4000.345 | 0.000 | .28E-05 | 0.00 | .38E-06 | -90.000 | .31E-05 | 90.000 | .148E+05 | 90.000 | 3889.288 | 0.000 | .02776 |
| 43. | 3999.295 | 0.000 | .28E-05 | 0.00 | .51E-06 | -90.000 | .31E-05 | 90.000 | .145E+05 | 90.000 | 3888.897 | 0.000 | .02760 |
| 44. | 3997.319 | 0.000 | .27E-05 | 0.00 | .64E-06 | -90.000 | .31E-05 | 90.000 | .141E+05 | 90.000 | 3888.209 | 0.000 | .02730 |
| 45. | 3994.526 | 0.000 | .27E-05 | 0.00 | .75E-06 | -90.000 | .31E-05 | 90.000 | .137E+05 | 90.000 | 3887.225 | 0.000 | .02686 |
| 46. | 3991.041 | 0.000 | .27E-05 | 0.00 | .84E-06 | -90.000 | .30E-05 | 90.000 | .132E+05 | 90.000 | 3885.949 | 0.000 | .02633 |
| 47. | 3986.989 | 0.000 | .26E-05 | 0.00 | .92E-06 | -90.000 | .30E-05 | 90.000 | .128E+05 | 90.000 | 3884.387 | 0.000 | .02573 |
| 48. | 3982.482 | 0.000 | .26E-05 | 0.00 | .99E-06 | -90.000 | .30E-05 | 90.000 | .124E+05 | 90.000 | 3882.551 | 0.000 | .02509 |
| 49. | 3977.615 | 0.000 | .26E-05 | 0.00 | .10E-05 | -90.000 | .29E-05 | 90.000 | .119E+05 | 90.000 | 3880.451 | 0.000 | .02443 |

X-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3972.467 | 0.000 | .25E-05 | 0.00 | .11E-05 | -90.000 | .29E-05 | 90.000 | .116E+05 | 90.000 | 3878.104 | 0.000 | .02375 |
| 51. | 3967.103 | 0.000 | .25E-05 | 0.00 | .11E-05 | -90.000 | .29E-05 | 90.000 | .112E+05 | 90.000 | 3875.525 | 0.000 | .02308 |
| 52. | 3961.574 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .108E+05 | 90.000 | 3872.733 | 0.000 | .02243 |
| 53. | 3955.923 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .105E+05 | 90.000 | 3869.746 | 0.000 | .02178 |
| 54. | 3950.182 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .102E+05 | 90.000 | 3866.583 | 0.000 | .02116 |
| 55. | 3944.379 | 0.000 | .24E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .992E+04 | 90.000 | 3863.263 | 0.000 | .02056 |
| 56. | 3938.538 | 0.000 | .24E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .964E+04 | 90.000 | 3859.804 | 0.000 | .01999 |
| 57. | 3932.677 | 0.000 | .24E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .938E+04 | 90.000 | 3856.225 | 0.000 | .01944 |
| 58. | 3926.810 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .913E+04 | 90.000 | 3852.544 | 0.000 | .01891 |
| 59. | 3920.952 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .889E+04 | 90.000 | 3848.775 | 0.000 | .01841 |
| 60. | 3915.113 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .866E+04 | 90.000 | 3844.937 | 0.000 | .01792 |
| 61. | 3909.303 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .845E+04 | 90.000 | 3841.042 | 0.000 | .01746 |
| 62. | 3903.529 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .823E+04 | 90.000 | 3837.105 | 0.000 | .01702 |
| 63. | 3897.798 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .803E+04 | 90.000 | 3833.139 | 0.000 | .01659 |
| 64. | 3892.115 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .784E+04 | 90.000 | 3829.156 | 0.000 | .01618 |
| 65. | 3886.486 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .765E+04 | 90.000 | 3825.166 | 0.000 | .01578 |
| 66. | 3880.915 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .747E+04 | 90.000 | 3821.179 | 0.000 | .01539 |
| 67. | 3875.406 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .729E+04 | 90.000 | 3817.205 | 0.000 | .01502 |
| 68. | 3869.961 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .712E+04 | 90.000 | 3813.251 | 0.000 | .01465 |
| 69. | 3864.583 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .696E+04 | 90.000 | 3809.326 | 0.000 | .01430 |
| 70. | 3859.275 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .680E+04 | 90.000 | 3805.435 | 0.000 | .01395 |
| 71. | 3854.039 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .665E+04 | 90.000 | 3801.585 | 0.000 | .01361 |
| 72. | 3848.875 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .650E+04 | 90.000 | 3797.781 | 0.000 | .01328 |
| 73. | 3843.786 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .635E+04 | 90.000 | 3794.026 | 0.000 | .01295 |
| 74. | 3838.772 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .621E+04 | 90.000 | 3790.326 | 0.000 | .01262 |
| 75. | 3833.834 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .608E+04 | 90.000 | 3786.684 | 0.000 | .01230 |
| 76. | 3828.973 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .595E+04 | 90.000 | 3783.101 | 0.000 | .01198 |
| 77. | 3824.190 | 0.000 | .23E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .582E+04 | 90.000 | 3779.580 | 0.000 | .01167 |
| 78. | 3819.484 | 0.000 | .23E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .570E+04 | 90.000 | 3776.122 | 0.000 | .01135 |
| 79. | 3814.856 | 0.000 | .23E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .558E+04 | 90.000 | 3772.730 | 0.000 | .01104 |
| 80. | 3810.307 | 0.000 | .22E-05 | 0.00 | .98E-06 | -90.000 | .30E-05 | 90.000 | .547E+04 | 90.000 | 3769.402 | 0.000 | .01074 |
| 81. | 3805.835 | 0.000 | .22E-05 | 0.00 | .96E-06 | -90.000 | .31E-05 | 90.000 | .535E+04 | 90.000 | 3766.140 | 0.000 | .01043 |
| 82. | 3801.440 | 0.000 | .22E-05 | 0.00 | .93E-06 | -90.000 | .31E-05 | 90.000 | .525E+04 | 90.000 | 3762.942 | 0.000 | .01013 |
| 83. | 3797.123 | 0.000 | .22E-05 | 0.00 | .91E-06 | -90.000 | .31E-05 | 90.000 | .514E+04 | 90.000 | 3759.810 | 0.000 | .00983 |
| 84. | 3792.883 | 0.000 | .22E-05 | 0.00 | .89E-06 | -90.000 | .31E-05 | 90.000 | .504E+04 | 90.000 | 3756.740 | 0.000 | .00953 |
| 85. | 3788.719 | 0.000 | .22E-05 | 0.00 | .86E-06 | -90.000 | .31E-05 | 90.000 | .495E+04 | 90.000 | 3753.734 | 0.000 | .00923 |
| 86. | 3784.631 | 0.000 | .22E-05 | 0.00 | .84E-06 | -90.000 | .31E-05 | 90.000 | .485E+04 | 90.000 | 3750.788 | 0.000 | .00894 |
| 87. | 3780.618 | 0.000 | .22E-05 | 0.00 | .81E-06 | -90.000 | .31E-05 | 90.000 | .476E+04 | 90.000 | 3747.901 | 0.000 | .00865 |
| 88. | 3776.679 | 0.000 | .22E-05 | 0.00 | .79E-06 | -90.000 | .31E-05 | 90.000 | .468E+04 | 90.000 | 3745.072 | 0.000 | .00837 |
| 89. | 3772.814 | 0.000 | .22E-05 | 0.00 | .76E-06 | -90.000 | .31E-05 | 90.000 | .459E+04 | 90.000 | 3742.299 | 0.000 | .00809 |
| 90. | 3769.021 | 0.000 | .22E-05 | 0.00 | .73E-06 | -90.000 | .31E-05 | 90.000 | .451E+04 | 90.000 | 3739.580 | 0.000 | .00781 |
| 91. | 3765.300 | 0.000 | .22E-05 | 0.00 | .70E-06 | -90.000 | .32E-05 | 90.000 | .443E+04 | 90.000 | 3736.912 | 0.000 | .00754 |
| 92. | 3761.651 | 0.000 | .22E-05 | 0.00 | .67E-06 | -90.000 | .32E-05 | 90.000 | .436E+04 | 90.000 | 3734.295 | 0.000 | .00727 |
| 93. | 3758.071 | 0.000 | .22E-05 | 0.00 | .65E-06 | -90.000 | .32E-05 | 90.000 | .429E+04 | 90.000 | 3731.725 | 0.000 | .00701 |
| 94. | 3754.560 | 0.000 | .22E-05 | 0.00 | .62E-06 | -90.000 | .32E-05 | 90.000 | .422E+04 | 90.000 | 3729.202 | 0.000 | .00675 |
| 95. | 3751.118 | 0.000 | .22E-05 | 0.00 | .59E-06 | -90.000 | .32E-05 | 90.000 | .415E+04 | 90.000 | 3726.723 | 0.000 | .00650 |
| 96. | 3747.742 | 0.000 | .22E-05 | 0.00 | .56E-06 | -90.000 | .32E-05 | 90.000 | .409E+04 | 90.000 | 3724.287 | 0.000 | .00626 |
| 97. | 3744.433 | 0.000 | .22E-05 | 0.00 | .53E-06 | -90.000 | .32E-05 | 90.000 | .402E+04 | 90.000 | 3721.893 | 0.000 | .00602 |
| 98. | 3741.189 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .32E-05 | 90.000 | .396E+04 | 90.000 | 3719.539 | 0.000 | .00579 |
| 99. | 3738.010 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .32E-05 | 90.000 | .390E+04 | 90.000 | 3717.225 | 0.000 | .00556 |

X-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3734.895 | 0.000 | .22E-05 | 0.00 | .43E-06 | -90.000 | .32E-05 | 90.000 | .385E+04 | 90.000 | 3714.949 | 0.000 | .00534 |
| 101. | 3731.842 | 0.000 | .22E-05 | 0.00 | .40E-06 | -90.000 | .33E-05 | 90.000 | .379E+04 | 90.000 | 3712.711 | 0.000 | .00513 |
| 102. | 3728.853 | 0.000 | .22E-05 | 0.00 | .37E-06 | -90.000 | .33E-05 | 90.000 | .374E+04 | 90.000 | 3710.511 | 0.000 | .00492 |
| 103. | 3725.925 | 0.000 | .22E-05 | 0.00 | .34E-06 | -90.000 | .33E-05 | 90.000 | .369E+04 | 90.000 | 3708.348 | 0.000 | .00472 |
| 104. | 3723.059 | 0.000 | .22E-05 | 0.00 | .30E-06 | -90.000 | .33E-05 | 90.000 | .363E+04 | 90.000 | 3706.222 | 0.000 | .00452 |
| 105. | 3720.254 | 0.000 | .22E-05 | 0.00 | .27E-06 | -90.000 | .33E-05 | 90.000 | .359E+04 | 90.000 | 3704.134 | 0.000 | .00433 |
| 106. | 3717.511 | 0.000 | .22E-05 | 0.00 | .24E-06 | -90.000 | .33E-05 | 90.000 | .354E+04 | 90.000 | 3702.084 | 0.000 | .00415 |
| 107. | 3714.830 | 0.000 | .22E-05 | 0.00 | .20E-06 | -90.000 | .33E-05 | 90.000 | .349E+04 | 90.000 | 3700.074 | 0.000 | .00397 |
| 108. | 3712.210 | 0.000 | .22E-05 | 0.00 | .17E-06 | -90.000 | .33E-05 | 90.000 | .344E+04 | 90.000 | 3698.103 | 0.000 | .00380 |
| 109. | 3709.653 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .33E-05 | 90.000 | .339E+04 | 90.000 | 3696.173 | 0.000 | .00363 |
| 110. | 3707.160 | 0.000 | .22E-05 | 0.00 | .10E-06 | -90.000 | .33E-05 | 90.000 | .335E+04 | 90.000 | 3694.286 | 0.000 | .00347 |
| 111. | 3704.731 | 0.000 | .22E-05 | 0.00 | .68E-07 | -90.000 | .33E-05 | 90.000 | .330E+04 | 90.000 | 3692.443 | 0.000 | .00332 |
| 112. | 3702.368 | 0.000 | .22E-05 | 0.00 | .34E-07 | -90.000 | .33E-05 | 90.000 | .325E+04 | 90.000 | 3690.646 | 0.000 | .00317 |
| 113. | 3700.073 | 0.000 | .22E-05 | 0.00 | .29E-09 | 90.000 | .34E-05 | 90.000 | .321E+04 | 90.000 | 3688.897 | 0.000 | .00302 |
| 114. | 3697.846 | 0.000 | .22E-05 | 0.00 | .34E-07 | 90.000 | .34E-05 | 90.000 | .316E+04 | 90.000 | 3687.199 | 0.000 | .00288 |
| 115. | 3695.691 | 0.000 | .22E-05 | 0.00 | .68E-07 | 90.000 | .34E-05 | 90.000 | .311E+04 | 90.000 | 3685.554 | 0.000 | .00274 |
| 116. | 3693.609 | 0.000 | .22E-05 | 0.00 | .10E-06 | 90.000 | .34E-05 | 90.000 | .307E+04 | 90.000 | 3683.964 | 0.000 | .00261 |
| 117. | 3691.604 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .34E-05 | 90.000 | .302E+04 | 90.000 | 3682.434 | 0.000 | .00248 |
| 118. | 3689.677 | 0.000 | .22E-05 | 0.00 | .17E-06 | 90.000 | .34E-05 | 90.000 | .297E+04 | 90.000 | 3680.965 | 0.000 | .00236 |
| 119. | 3687.833 | 0.000 | .22E-05 | 0.00 | .20E-06 | 90.000 | .34E-05 | 90.000 | .292E+04 | 90.000 | 3679.562 | 0.000 | .00224 |
| 120. | 3686.075 | 0.000 | .22E-05 | 0.00 | .24E-06 | 90.000 | .34E-05 | 90.000 | .288E+04 | 90.000 | 3678.228 | 0.000 | .00213 |
| 121. | 3684.405 | 0.000 | .23E-05 | 0.00 | .27E-06 | 90.000 | .34E-05 | 90.000 | .283E+04 | 90.000 | 3676.967 | 0.000 | .00202 |
| 122. | 3682.829 | 0.000 | .23E-05 | 0.00 | .30E-06 | 90.000 | .34E-05 | 90.000 | .278E+04 | 90.000 | 3675.783 | 0.000 | .00191 |
| 123. | 3681.349 | 0.000 | .23E-05 | 0.00 | .33E-06 | 90.000 | .34E-05 | 90.000 | .273E+04 | 90.000 | 3674.681 | 0.000 | .00181 |
| 124. | 3679.971 | 0.000 | .23E-05 | 0.00 | .36E-06 | 90.000 | .34E-05 | 90.000 | .268E+04 | 90.000 | 3673.664 | 0.000 | .00171 |
| 125. | 3678.697 | 0.000 | .23E-05 | 0.00 | .39E-06 | 90.000 | .34E-05 | 90.000 | .263E+04 | 90.000 | 3672.736 | 0.000 | .00162 |
| 126. | 3677.532 | 0.000 | .23E-05 | 0.00 | .42E-06 | 90.000 | .34E-05 | 90.000 | .258E+04 | 90.000 | 3671.904 | 0.000 | .00153 |
| 127. | 3676.482 | 0.000 | .23E-05 | 0.00 | .45E-06 | 90.000 | .34E-05 | 90.000 | .253E+04 | 90.000 | 3671.170 | 0.000 | .00144 |
| 128. | 3675.549 | 0.000 | .23E-05 | 0.00 | .48E-06 | 90.000 | .34E-05 | 90.000 | .248E+04 | 90.000 | 3670.540 | 0.000 | .00136 |
| 129. | 3674.738 | 0.000 | .23E-05 | 0.00 | .51E-06 | 90.000 | .34E-05 | 90.000 | .242E+04 | 90.000 | 3670.019 | 0.000 | .00128 |
| 130. | 3674.054 | 0.000 | .23E-05 | 0.00 | .54E-06 | 90.000 | .34E-05 | 90.000 | .237E+04 | 90.000 | 3669.610 | 0.000 | .00121 |
| 131. | 3673.500 | 0.000 | .23E-05 | 0.00 | .56E-06 | 90.000 | .34E-05 | 90.000 | .232E+04 | 90.000 | 3669.319 | 0.000 | .00114 |
| 132. | 3673.081 | 0.000 | .23E-05 | 0.00 | .59E-06 | 90.000 | .34E-05 | 90.000 | .227E+04 | 90.000 | 3669.150 | 0.000 | .00107 |
| 133. | 3672.800 | 0.000 | .23E-05 | 0.00 | .61E-06 | 90.000 | .34E-05 | 90.000 | .222E+04 | 90.000 | 3669.107 | 0.000 | .00101 |
| 134. | 3672.661 | 0.000 | .23E-05 | 0.00 | .64E-06 | 90.000 | .34E-05 | 90.000 | .217E+04 | 90.000 | 3669.195 | 0.000 | .00094 |
| 135. | 3672.666 | 0.000 | .23E-05 | 0.00 | .66E-06 | 90.000 | .34E-05 | 90.000 | .212E+04 | 90.000 | 3669.416 | 0.000 | .00088 |
| 136. | 3672.819 | 0.000 | .23E-05 | 0.00 | .68E-06 | 90.000 | .34E-05 | 90.000 | .207E+04 | 90.000 | 3669.776 | 0.000 | .00083 |
| 137. | 3673.123 | 0.000 | .23E-05 | 0.00 | .71E-06 | 90.000 | .34E-05 | 90.000 | .202E+04 | 90.000 | 3670.275 | 0.000 | .00078 |
| 138. | 3673.579 | 0.000 | .23E-05 | 0.00 | .73E-06 | 90.000 | .34E-05 | 90.000 | .196E+04 | 90.000 | 3670.919 | 0.000 | .00072 |
| 139. | 3674.189 | 0.000 | .23E-05 | 0.00 | .75E-06 | 90.000 | .33E-05 | 90.000 | .191E+04 | 90.000 | 9999.999 | 0.000 | .99999 |
| 140. | 3674.954 | 0.000 | .23E-05 | 0.00 | .76E-06 | 90.000 | .33E-05 | 90.000 | .186E+04 | 90.000 | 3672.645 | 0.000 | .00063 |
| 141. | 3675.875 | 0.000 | .23E-05 | 0.00 | .78E-06 | 90.000 | .33E-05 | 90.000 | .180E+04 | 90.000 | 3673.732 | 0.000 | .00058 |
| 142. | 3676.953 | 0.000 | .23E-05 | 0.00 | .80E-06 | 90.000 | .33E-05 | 90.000 | .175E+04 | 90.000 | 3674.968 | 0.000 | .00054 |
| 143. | 3678.185 | 0.000 | .23E-05 | 0.00 | .81E-06 | 90.000 | .33E-05 | 90.000 | .169E+04 | 90.000 | 3676.354 | 0.000 | .00050 |
| 144. | 3679.573 | 0.000 | .23E-05 | 0.00 | .83E-06 | 90.000 | .33E-05 | 90.000 | .163E+04 | 90.000 | 3677.890 | 0.000 | .00046 |
| 145. | 3681.113 | 0.000 | .23E-05 | 0.00 | .84E-06 | 90.000 | .33E-05 | 90.000 | .157E+04 | 90.000 | 3679.574 | 0.000 | .00042 |
| 146. | 3682.804 | 0.000 | .23E-05 | 0.00 | .85E-06 | 90.000 | .33E-05 | 90.000 | .151E+04 | 90.000 | 3681.405 | 0.000 | .00038 |
| 147. | 3684.642 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .33E-05 | 90.000 | .144E+04 | 90.000 | 3683.381 | 0.000 | .00034 |
| 148. | 3686.626 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .33E-05 | 90.000 | .138E+04 | 90.000 | 3685.498 | 0.000 | .00031 |
| 149. | 3688.750 | 0.000 | .23E-05 | 0.00 | .88E-06 | 90.000 | .32E-05 | 90.000 | .130E+04 | 90.000 | 3687.752 | 0.000 | .00027 |

X-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3691.010 | 0.000 | .23E-05 | 0.00 | .89E-06 | 90.000 | .32E-05 | 90.000 | .122E+04 | 90.000 | 3690.139 | 0.000 | .00024 |
| 151. | 3693.402 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .32E-05 | 90.000 | .114E+04 | 90.000 | 3692.654 | 0.000 | .00020 |
| 152. | 3695.921 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .32E-05 | 90.000 | .105E+04 | 90.000 | 3695.290 | 0.000 | .00017 |
| 153. | 3698.560 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .32E-05 | 90.000 | .960E+03 | 90.000 | 3698.043 | 0.000 | .00014 |
| 154. | 3701.314 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .32E-05 | 90.000 | .860E+03 | 90.000 | 3700.903 | 0.000 | .00011 |
| 155. | 3704.177 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .32E-05 | 90.000 | .753E+03 | 90.000 | 3703.865 | 0.000 | .00008 |
| 156. | 3707.142 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .32E-05 | 90.000 | .639E+03 | 90.000 | 3706.921 | 0.000 | .00006 |
| 157. | 3710.205 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .517E+03 | 90.000 | 3710.061 | 0.000 | .00004 |
| 158. | 3713.358 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .387E+03 | 90.000 | 3713.278 | 0.000 | .00002 |
| 159. | 3716.596 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .249E+03 | 90.000 | 3716.563 | 0.000 | .00001 |
| 160. | 3719.913 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .101E+03 | 90.000 | 3719.908 | 0.000 | 0.00000 |
| 161. | 3723.304 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .548E+02 | -90.000 | 3723.302 | 0.000 | 0.00000 |
| 162. | 3726.764 | 0.000 | .23E-05 | 0.00 | .91E-06 | 90.000 | .31E-05 | 90.000 | .220E+03 | -90.000 | 3726.739 | 0.000 | .00001 |
| 163. | 3730.288 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .31E-05 | 90.000 | .395E+03 | -90.000 | 3730.209 | 0.000 | .00002 |
| 164. | 3733.873 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .31E-05 | 90.000 | .578E+03 | -90.000 | 3733.704 | 0.000 | .00005 |
| 165. | 3737.514 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .30E-05 | 90.000 | .771E+03 | -90.000 | 3737.216 | 0.000 | .00008 |
| 166. | 3741.210 | 0.000 | .23E-05 | 0.00 | .89E-06 | 90.000 | .30E-05 | 90.000 | .973E+03 | -90.000 | 3740.737 | 0.000 | .00013 |
| 167. | 3744.956 | 0.000 | .23E-05 | 0.00 | .89E-06 | 90.000 | .30E-05 | 90.000 | .118E+04 | -90.000 | 3744.261 | 0.000 | .00019 |
| 168. | 3748.752 | 0.000 | .23E-05 | 0.00 | .89E-06 | 90.000 | .30E-05 | 90.000 | .140E+04 | -90.000 | 3747.781 | 0.000 | .00026 |
| 169. | 3752.595 | 0.000 | .23E-05 | 0.00 | .88E-06 | 90.000 | .30E-05 | 90.000 | .163E+04 | -90.000 | 3751.291 | 0.000 | .00035 |
| 170. | 3756.485 | 0.000 | .23E-05 | 0.00 | .88E-06 | 90.000 | .30E-05 | 90.000 | .186E+04 | -90.000 | 3754.786 | 0.000 | .00045 |
| 171. | 3760.420 | 0.000 | .23E-05 | 0.00 | .88E-06 | 90.000 | .30E-05 | 90.000 | .210E+04 | -90.000 | 3758.260 | 0.000 | .00057 |
| 172. | 3764.401 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .29E-05 | 90.000 | .235E+04 | -90.000 | 3761.711 | 0.000 | .00071 |
| 173. | 3768.428 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .29E-05 | 90.000 | .261E+04 | -90.000 | 3765.135 | 0.000 | .00087 |
| 174. | 3772.500 | 0.000 | .23E-05 | 0.00 | .87E-06 | 90.000 | .29E-05 | 90.000 | .286E+04 | -90.000 | 3768.528 | 0.000 | .00105 |
| 175. | 3776.618 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .313E+04 | -90.000 | 3771.890 | 0.000 | .00125 |
| 176. | 3780.784 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .340E+04 | -90.000 | 3775.219 | 0.000 | .00147 |
| 177. | 3784.998 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .367E+04 | -90.000 | 3778.513 | 0.000 | .00171 |
| 178. | 3789.260 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .394E+04 | -90.000 | 3781.773 | 0.000 | .00198 |
| 179. | 3793.572 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .422E+04 | -90.000 | 3784.999 | 0.000 | .00226 |
| 180. | 3797.936 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .29E-05 | 90.000 | .450E+04 | -90.000 | 3788.193 | 0.000 | .00257 |

Y-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3903.050 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .30E-05 | 97.219 | .103E+05 | 64.494 | 3859.216 | 0.000 | .01123 |
| 1. | 3902.777 | .929 | .25E-05 | 0.00 | .13E-06 | -77.743 | .30E-05 | 97.223 | .103E+05 | 64.400 | 3858.969 | .442 | .01122 |
| 2. | 3901.967 | 1.820 | .25E-05 | 0.00 | .26E-06 | -77.616 | .30E-05 | 97.233 | .103E+05 | 64.126 | 3858.233 | .877 | .01121 |
| 3. | 3900.656 | 2.642 | .25E-05 | 0.00 | .38E-06 | -77.414 | .30E-05 | 97.251 | .103E+05 | 63.686 | 3857.025 | 1.297 | .01119 |
| 4. | 3898.893 | 3.375 | .24E-05 | 0.00 | .49E-06 | -77.148 | .30E-05 | 97.275 | .102E+05 | 63.103 | 3855.370 | 1.696 | .01116 |
| 5. | 3896.735 | 4.014 | .24E-05 | 0.00 | .58E-06 | -76.833 | .30E-05 | 97.305 | .101E+05 | 62.406 | 3853.301 | 2.071 | .01115 |
| 6. | 3894.241 | 4.562 | .24E-05 | 0.00 | .67E-06 | -76.482 | .30E-05 | 97.341 | .101E+05 | 61.619 | 3850.855 | 2.420 | .01114 |
| 7. | 3891.466 | 5.025 | .24E-05 | 0.00 | .75E-06 | -76.108 | .30E-05 | 97.383 | .100E+05 | 60.769 | 3848.072 | 2.742 | .01115 |
| 8. | 3888.459 | 5.414 | .24E-05 | 0.00 | .81E-06 | -75.721 | .29E-05 | 97.429 | .998E+04 | 59.877 | 3844.994 | 3.037 | .01118 |
| 9. | 3885.265 | 5.741 | .24E-05 | 0.00 | .87E-06 | -75.331 | .29E-05 | 97.481 | .995E+04 | 58.960 | 3841.659 | 3.307 | .01122 |
| 10. | 3881.920 | 6.014 | .23E-05 | 0.00 | .92E-06 | -74.945 | .29E-05 | 97.536 | .992E+04 | 58.033 | 3838.107 | 3.554 | .01129 |
| 11. | 3878.455 | 6.243 | .23E-05 | 0.00 | .96E-06 | -74.568 | .29E-05 | 97.596 | .990E+04 | 57.107 | 3834.372 | 3.780 | .01137 |
| 12. | 3874.898 | 6.434 | .23E-05 | 0.00 | .10E-05 | -74.205 | .29E-05 | 97.658 | .989E+04 | 56.189 | 3830.487 | 3.987 | .01146 |
| 13. | 3871.271 | 6.594 | .23E-05 | 0.00 | .10E-05 | -73.861 | .29E-05 | 97.723 | .989E+04 | 55.286 | 3826.483 | 4.176 | .01157 |
| 14. | 3867.594 | 6.728 | .23E-05 | 0.00 | .10E-05 | -73.537 | .29E-05 | 97.791 | .989E+04 | 54.401 | 3822.387 | 4.351 | .01169 |
| 15. | 3863.884 | 6.839 | .23E-05 | 0.00 | .11E-05 | -73.237 | .29E-05 | 97.861 | .989E+04 | 53.536 | 3818.223 | 4.512 | .01182 |
| 16. | 3860.155 | 6.932 | .23E-05 | 0.00 | .11E-05 | -72.961 | .29E-05 | 97.932 | .990E+04 | 52.693 | 3814.014 | 4.660 | .01195 |
| 17. | 3856.421 | 7.008 | .23E-05 | 0.00 | .11E-05 | -72.713 | .29E-05 | 98.004 | .991E+04 | 51.870 | 3809.779 | 4.798 | .01209 |
| 18. | 3852.692 | 7.070 | .23E-05 | 0.00 | .11E-05 | -72.491 | .29E-05 | 98.077 | .992E+04 | 51.069 | 3805.537 | 4.925 | .01224 |
| 19. | 3848.979 | 7.120 | .23E-05 | 0.00 | .11E-05 | -72.299 | .29E-05 | 98.151 | .992E+04 | 50.288 | 3801.303 | 5.043 | .01239 |
| 20. | 3845.290 | 7.159 | .23E-05 | 0.00 | .11E-05 | -72.136 | .29E-05 | 98.224 | .993E+04 | 49.526 | 3797.092 | 5.153 | .01253 |
| 21. | 3841.635 | 7.188 | .23E-05 | 0.00 | .11E-05 | -72.003 | .29E-05 | 98.297 | .994E+04 | 48.780 | 3792.916 | 5.255 | .01268 |
| 22. | 3838.020 | 7.210 | .23E-05 | 0.00 | .12E-05 | -71.901 | .29E-05 | 98.370 | .994E+04 | 48.050 | 3788.786 | 5.349 | .01283 |
| 23. | 3834.453 | 7.223 | .23E-05 | 0.00 | .12E-05 | -71.830 | .29E-05 | 98.441 | .995E+04 | 47.334 | 3784.713 | 5.437 | .01297 |
| 24. | 3830.939 | 7.230 | .23E-05 | 0.00 | .12E-05 | -71.790 | .29E-05 | 98.512 | .995E+04 | 46.631 | 3780.706 | 5.518 | .01311 |
| 25. | 3827.484 | 7.230 | .23E-05 | 0.00 | .12E-05 | -71.783 | .29E-05 | 98.580 | .995E+04 | 45.937 | 3776.771 | 5.593 | .01325 |
| 26. | 3824.093 | 7.225 | .23E-05 | 0.00 | .12E-05 | -71.808 | .29E-05 | 98.647 | .994E+04 | 45.253 | 3772.916 | 5.662 | .01338 |
| 27. | 3820.772 | 7.215 | .23E-05 | 0.00 | .11E-05 | -71.867 | .30E-05 | 98.712 | .994E+04 | 44.575 | 3769.147 | 5.725 | .01351 |
| 28. | 3817.523 | 7.199 | .23E-05 | 0.00 | .11E-05 | -71.958 | .30E-05 | 98.774 | .993E+04 | 43.904 | 3765.469 | 5.783 | .01364 |
| 29. | 3814.352 | 7.179 | .23E-05 | 0.00 | .11E-05 | -72.084 | .30E-05 | 98.833 | .991E+04 | 43.237 | 3761.886 | 5.835 | .01375 |
| 30. | 3811.260 | 7.155 | .23E-05 | 0.00 | .11E-05 | -72.243 | .30E-05 | 98.889 | .990E+04 | 42.573 | 3758.401 | 5.883 | .01387 |
| 31. | 3808.252 | 7.127 | .23E-05 | 0.00 | .11E-05 | -72.437 | .30E-05 | 98.942 | .988E+04 | 41.911 | 3755.018 | 5.925 | .01398 |
| 32. | 3805.330 | 7.095 | .23E-05 | 0.00 | .11E-05 | -72.667 | .30E-05 | 98.991 | .986E+04 | 41.250 | 3751.739 | 5.963 | .01408 |
| 33. | 3802.495 | 7.060 | .23E-05 | 0.00 | .11E-05 | -72.932 | .30E-05 | 99.036 | .983E+04 | 40.589 | 3748.565 | 5.996 | .01418 |
| 34. | 3799.750 | 7.021 | .23E-05 | 0.00 | .11E-05 | -73.233 | .30E-05 | 99.077 | .981E+04 | 39.926 | 3745.498 | 6.024 | .01428 |
| 35. | 3797.096 | 6.978 | .23E-05 | 0.00 | .11E-05 | -73.572 | .30E-05 | 99.114 | .978E+04 | 39.262 | 3742.537 | 6.048 | .01437 |
| 36. | 3794.534 | 6.933 | .23E-05 | 0.00 | .11E-05 | -73.949 | .30E-05 | 99.146 | .975E+04 | 38.596 | 3739.683 | 6.068 | .01446 |
| 37. | 3792.065 | 6.885 | .23E-05 | 0.00 | .10E-05 | -74.364 | .30E-05 | 99.173 | .971E+04 | 37.926 | 3736.936 | 6.083 | .01454 |
| 38. | 3789.689 | 6.834 | .23E-05 | 0.00 | .10E-05 | -74.818 | .30E-05 | 99.195 | .968E+04 | 37.253 | 3734.294 | 6.095 | .01462 |
| 39. | 3787.405 | 6.780 | .23E-05 | 0.00 | .10E-05 | -75.314 | .30E-05 | 99.212 | .964E+04 | 36.576 | 3731.756 | 6.103 | .01469 |
| 40. | 3785.214 | 6.723 | .23E-05 | 0.00 | .10E-05 | -75.851 | .30E-05 | 99.222 | .960E+04 | 35.894 | 3729.320 | 6.107 | .01477 |
| 41. | 3783.114 | 6.665 | .23E-05 | 0.00 | .99E-06 | -76.430 | .30E-05 | 99.227 | .955E+04 | 35.208 | 3726.985 | 6.108 | .01484 |
| 42. | 3781.105 | 6.604 | .23E-05 | 0.00 | .98E-06 | -77.054 | .30E-05 | 99.226 | .951E+04 | 34.518 | 3724.747 | 6.106 | .01491 |
| 43. | 3779.184 | 6.541 | .23E-05 | 0.00 | .96E-06 | -77.723 | .31E-05 | 99.218 | .946E+04 | 33.823 | 3722.604 | 6.100 | .01497 |
| 44. | 3777.352 | 6.476 | .23E-05 | 0.00 | .94E-06 | -78.440 | .31E-05 | 99.204 | .941E+04 | 33.124 | 3720.554 | 6.091 | .01504 |
| 45. | 3775.605 | 6.409 | .23E-05 | 0.00 | .93E-06 | -79.204 | .31E-05 | 99.182 | .936E+04 | 32.420 | 3718.592 | 6.079 | .01510 |
| 46. | 3773.941 | 6.340 | .23E-05 | 0.00 | .91E-06 | -80.020 | .31E-05 | 99.154 | .931E+04 | 31.712 | 3716.716 | 6.065 | .01516 |
| 47. | 3772.359 | 6.270 | .22E-05 | 0.00 | .89E-06 | -80.887 | .31E-05 | 99.118 | .926E+04 | 31.000 | 3714.923 | 6.048 | .01523 |
| 48. | 3770.855 | 6.199 | .22E-05 | 0.00 | .87E-06 | -81.808 | .31E-05 | 99.075 | .921E+04 | 30.285 | 3713.207 | 6.029 | .01529 |
| 49. | 3769.427 | 6.126 | .22E-05 | 0.00 | .86E-06 | -82.785 | .31E-05 | 99.024 | .915E+04 | 29.567 | 3711.567 | 6.007 | .01535 |

Y-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | OV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3768.071 | 6.052 | .22E-05 | 0.00 | .84E-06 | -83.821 | .31E-05 | 98.965 | .909E+04 | 28.846 | 3709.998 | 5.983 | .01541 |
| 51. | 3766.786 | 5.977 | .22E-05 | 0.00 | .82E-06 | -84.917 | .31E-05 | 98.897 | .904E+04 | 28.123 | 3708.496 | 5.958 | .01547 |
| 52. | 3765.568 | 5.902 | .22E-05 | 0.00 | .80E-06 | -86.075 | .31E-05 | 98.822 | .898E+04 | 27.398 | 3707.059 | 5.930 | .01554 |
| 53. | 3764.414 | 5.826 | .22E-05 | 0.00 | .78E-06 | -87.298 | .31E-05 | 98.737 | .892E+04 | 26.672 | 3705.681 | 5.902 | .01560 |
| 54. | 3763.320 | 5.750 | .22E-05 | 0.00 | .77E-06 | -88.588 | .31E-05 | 98.644 | .886E+04 | 25.945 | 3704.361 | 5.871 | .01567 |
| 55. | 3762.284 | 5.673 | .22E-05 | 0.00 | .75E-06 | -89.948 | .31E-05 | 98.542 | .880E+04 | 25.218 | 3703.094 | 5.840 | .01573 |
| 56. | 3761.302 | 5.596 | .22E-05 | 0.00 | .73E-06 | -91.379 | .31E-05 | 98.431 | .874E+04 | 24.491 | 3701.878 | 5.808 | .01580 |
| 57. | 3760.372 | 5.520 | .22E-05 | 0.00 | .71E-06 | -92.884 | .31E-05 | 98.311 | .868E+04 | 23.764 | 3700.709 | 5.774 | .01587 |
| 58. | 3759.490 | 5.444 | .22E-05 | 0.00 | .69E-06 | -94.465 | .31E-05 | 98.182 | .863E+04 | 23.038 | 3699.584 | 5.740 | .01593 |
| 59. | 3758.654 | 5.368 | .22E-05 | 0.00 | .68E-06 | -96.124 | .31E-05 | 98.044 | .856E+04 | 22.313 | 3698.502 | 5.706 | .01600 |
| 60. | 3757.861 | 5.293 | .22E-05 | 0.00 | .66E-06 | -97.862 | .31E-05 | 97.896 | .850E+04 | 21.589 | 3697.460 | 5.671 | .01607 |
| 61. | 3757.108 | 5.219 | .22E-05 | 0.00 | .65E-06 | -99.682 | .31E-05 | 97.739 | .844E+04 | 20.866 | 3696.455 | 5.636 | .01614 |
| 62. | 3756.393 | 5.146 | .22E-05 | 0.00 | .63E-06 | -101.583 | .31E-05 | 97.572 | .838E+04 | 20.145 | 3695.485 | 5.601 | .01621 |
| 63. | 3755.714 | 5.075 | .22E-05 | 0.00 | .61E-06 | -103.568 | .31E-05 | 97.397 | .832E+04 | 19.426 | 3694.550 | 5.566 | .01629 |
| 64. | 3755.067 | 5.004 | .22E-05 | 0.00 | .60E-06 | -105.636 | .31E-05 | 97.212 | .827E+04 | 18.708 | 3693.647 | 5.531 | .01636 |
| 65. | 3754.453 | 4.935 | .22E-05 | 0.00 | .58E-06 | -107.787 | .31E-05 | 97.018 | .821E+04 | 17.992 | 3692.776 | 5.497 | .01643 |
| 66. | 3753.868 | 4.868 | .22E-05 | 0.00 | .57E-06 | -110.022 | .31E-05 | 96.815 | .815E+04 | 17.277 | 3691.935 | 5.463 | .01650 |
| 67. | 3753.312 | 4.803 | .22E-05 | 0.00 | .56E-06 | -112.338 | .31E-05 | 96.604 | .809E+04 | 16.563 | 3691.124 | 5.430 | .01657 |
| 68. | 3752.782 | 4.739 | .22E-05 | 0.00 | .54E-06 | -114.735 | .31E-05 | 96.384 | .804E+04 | 15.851 | 3690.342 | 5.398 | .01664 |
| 69. | 3752.278 | 4.678 | .22E-05 | 0.00 | .53E-06 | -117.210 | .31E-05 | 96.155 | .798E+04 | 15.139 | 3689.590 | 5.366 | .01671 |
| 70. | 3751.799 | 4.619 | .22E-05 | 0.00 | .52E-06 | -119.760 | .31E-05 | 95.919 | .793E+04 | 14.428 | 3688.866 | 5.336 | .01677 |
| 71. | 3751.345 | 4.562 | .22E-05 | 0.00 | .51E-06 | -122.382 | .31E-05 | 95.674 | .788E+04 | 13.717 | 3688.171 | 5.307 | .01684 |
| 72. | 3750.913 | 4.508 | .22E-05 | 0.00 | .50E-06 | -125.074 | .31E-05 | 95.422 | .782E+04 | 13.006 | 3687.505 | 5.279 | .01690 |
| 73. | 3750.505 | 4.456 | .22E-05 | 0.00 | .49E-06 | -127.829 | .31E-05 | 95.163 | .778E+04 | 12.294 | 3686.870 | 5.252 | .01697 |
| 74. | 3750.119 | 4.406 | .21E-05 | 0.00 | .48E-06 | -130.644 | .31E-05 | 94.896 | .773E+04 | 11.582 | 3686.264 | 5.227 | .01703 |
| 75. | 3749.756 | 4.360 | .21E-05 | 0.00 | .47E-06 | -133.514 | .31E-05 | 94.623 | .768E+04 | 10.870 | 3685.689 | 5.203 | .01709 |
| 76. | 3749.415 | 4.316 | .21E-05 | 0.00 | .46E-06 | -136.433 | .31E-05 | 94.344 | .764E+04 | 10.156 | 3685.145 | 5.180 | .01714 |
| 77. | 3749.096 | 4.275 | .21E-05 | 0.00 | .45E-06 | -139.398 | .31E-05 | 94.059 | .760E+04 | 9.440 | 3684.634 | 5.159 | .01719 |
| 78. | 3748.799 | 4.237 | .21E-05 | 0.00 | .45E-06 | -142.401 | .31E-05 | 93.768 | .756E+04 | 8.723 | 3684.156 | 5.139 | .01724 |
| 79. | 3748.525 | 4.202 | .21E-05 | 0.00 | .44E-06 | -145.439 | .31E-05 | 93.472 | .753E+04 | 8.005 | 3683.712 | 5.121 | .01729 |
| 80. | 3748.274 | 4.170 | .21E-05 | 0.00 | .44E-06 | -148.507 | .31E-05 | 93.172 | .749E+04 | 7.285 | 3683.303 | 5.104 | .01733 |
| 81. | 3748.046 | 4.140 | .21E-05 | 0.00 | .43E-06 | -151.599 | .31E-05 | 92.867 | .746E+04 | 6.563 | 3682.930 | 5.089 | .01737 |
| 82. | 3747.841 | 4.114 | .21E-05 | 0.00 | .43E-06 | -154.713 | .31E-05 | 92.558 | .743E+04 | 5.839 | 3682.593 | 5.076 | .01741 |
| 83. | 3747.659 | 4.091 | .21E-05 | 0.00 | .43E-06 | -157.843 | .31E-05 | 92.246 | .741E+04 | 5.114 | 3682.294 | 5.064 | .01744 |
| 84. | 3747.501 | 4.071 | .21E-05 | 0.00 | .42E-06 | -160.987 | .31E-05 | 91.931 | .739E+04 | 4.387 | 3682.033 | 5.054 | .01747 |
| 85. | 3747.366 | 4.054 | .21E-05 | 0.00 | .42E-06 | -164.142 | .31E-05 | 91.613 | .737E+04 | 3.658 | 3681.810 | 5.045 | .01749 |
| 86. | 3747.256 | 4.040 | .21E-05 | 0.00 | .42E-06 | -167.305 | .31E-05 | 91.293 | .736E+04 | 2.928 | 3681.628 | 5.038 | .01751 |
| 87. | 3747.170 | 4.029 | .21E-05 | 0.00 | .42E-06 | -170.474 | .31E-05 | 90.971 | .734E+04 | 2.197 | 3681.485 | 5.032 | .01753 |
| 88. | 3747.109 | 4.021 | .21E-05 | 0.00 | .41E-06 | -173.647 | .31E-05 | 90.648 | .734E+04 | 1.465 | 3681.383 | 5.028 | .01754 |
| 89. | 3747.072 | 4.016 | .21E-05 | 0.00 | .41E-06 | -176.823 | .31E-05 | 90.324 | .733E+04 | .733 | 3681.322 | 5.026 | .01755 |
| 90. | 3747.060 | 4.015 | .21E-05 | 0.00 | .41E-06 | -180.000 | .31E-05 | 90.000 | .733E+04 | 0.000 | 3681.301 | 5.025 | .01755 |
| 91. | 3747.072 | 4.016 | .21E-05 | 0.00 | .41E-06 | 176.823 | .31E-05 | 89.676 | .733E+04 | -.733 | 3681.322 | 5.026 | .01755 |
| 92. | 3747.109 | 4.021 | .21E-05 | 0.00 | .41E-06 | 173.647 | .31E-05 | 89.352 | .734E+04 | -1.465 | 3681.383 | 5.028 | .01754 |
| 93. | 3747.170 | 4.029 | .21E-05 | 0.00 | .42E-06 | 170.474 | .31E-05 | 89.029 | .734E+04 | -2.197 | 3681.485 | 5.032 | .01753 |
| 94. | 3747.256 | 4.040 | .21E-05 | 0.00 | .42E-06 | 167.305 | .31E-05 | 88.707 | .736E+04 | -2.928 | 3681.628 | 5.038 | .01751 |
| 95. | 3747.366 | 4.054 | .21E-05 | 0.00 | .42E-06 | 164.142 | .31E-05 | 88.387 | .737E+04 | -3.658 | 3681.810 | 5.045 | .01749 |
| 96. | 3747.501 | 4.071 | .21E-05 | 0.00 | .42E-06 | 160.987 | .31E-05 | 88.069 | .739E+04 | -4.387 | 3682.033 | 5.054 | .01747 |
| 97. | 3747.659 | 4.091 | .21E-05 | 0.00 | .43E-06 | 157.843 | .31E-05 | 87.754 | .741E+04 | -5.114 | 3682.294 | 5.064 | .01744 |
| 98. | 3747.841 | 4.114 | .21E-05 | 0.00 | .43E-06 | 154.713 | .31E-05 | 87.442 | .743E+04 | -5.839 | 3682.593 | 5.076 | .01741 |
| 99. | 3748.046 | 4.140 | .21E-05 | 0.00 | .43E-06 | 151.599 | .31E-05 | 87.133 | .746E+04 | -6.563 | 3682.930 | 5.089 | .01737 |

Y-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3748.274 | 4.170 | .21E-05 | 0.00 | .44E-06 | 148.507 | .31E-05 | 86.828 | .749E+04 | -7.285 | 3683.303 | 5.104 | .01733 |
| 101. | 3748.525 | 4.202 | .21E-05 | 0.00 | .44E-06 | 145.439 | .31E-05 | 86.528 | .753E+04 | -8.005 | 3683.712 | 5.121 | .01729 |
| 102. | 3748.799 | 4.237 | .21E-05 | 0.00 | .45E-06 | 142.401 | .31E-05 | 86.232 | .756E+04 | -8.723 | 3684.156 | 5.139 | .01724 |
| 103. | 3749.096 | 4.275 | .21E-05 | 0.00 | .45E-06 | 139.398 | .31E-05 | 85.941 | .760E+04 | -9.440 | 3684.634 | 5.159 | .01719 |
| 104. | 3749.415 | 4.316 | .21E-05 | 0.00 | .46E-06 | 136.433 | .31E-05 | 85.656 | .764E+04 | -10.156 | 3685.145 | 5.180 | .01714 |
| 105. | 3749.756 | 4.360 | .21E-05 | 0.00 | .47E-06 | 133.514 | .31E-05 | 85.377 | .768E+04 | -10.870 | 3685.689 | 5.203 | .01709 |
| 106. | 3750.119 | 4.406 | .21E-05 | 0.00 | .48E-06 | 130.644 | .31E-05 | 85.104 | .773E+04 | -11.582 | 3686.264 | 5.227 | .01703 |
| 107. | 3750.505 | 4.456 | .22E-05 | 0.00 | .49E-06 | 127.829 | .31E-05 | 84.837 | .778E+04 | -12.294 | 3686.870 | 5.252 | .01697 |
| 108. | 3750.913 | 4.508 | .22E-05 | 0.00 | .50E-06 | 125.074 | .31E-05 | 84.578 | .782E+04 | -13.006 | 3687.505 | 5.279 | .01690 |
| 109. | 3751.345 | 4.562 | .22E-05 | 0.00 | .51E-06 | 122.382 | .31E-05 | 84.326 | .788E+04 | -13.717 | 3688.171 | 5.307 | .01684 |
| 110. | 3751.799 | 4.619 | .22E-05 | 0.00 | .52E-06 | 119.760 | .31E-05 | 84.081 | .793E+04 | -14.428 | 3688.866 | 5.336 | .01677 |
| 111. | 3752.278 | 4.678 | .22E-05 | 0.00 | .53E-06 | 117.210 | .31E-05 | 83.845 | .798E+04 | -15.139 | 3689.590 | 5.366 | .01671 |
| 112. | 3752.782 | 4.739 | .22E-05 | 0.00 | .54E-06 | 114.735 | .31E-05 | 83.616 | .804E+04 | -15.851 | 3690.342 | 5.398 | .01664 |
| 113. | 3753.312 | 4.803 | .22E-05 | 0.00 | .56E-06 | 112.338 | .31E-05 | 83.396 | .809E+04 | -16.563 | 3691.124 | 5.430 | .01657 |
| 114. | 3753.868 | 4.868 | .22E-05 | 0.00 | .57E-06 | 110.022 | .31E-05 | 83.185 | .815E+04 | -17.277 | 3691.935 | 5.463 | .01650 |
| 115. | 3754.453 | 4.935 | .22E-05 | 0.00 | .58E-06 | 107.787 | .31E-05 | 82.982 | .821E+04 | -17.992 | 3692.776 | 5.497 | .01643 |
| 116. | 3755.067 | 5.004 | .22E-05 | 0.00 | .60E-06 | 105.636 | .31E-05 | 82.788 | .827E+04 | -18.708 | 3693.647 | 5.531 | .01636 |
| 117. | 3755.714 | 5.075 | .22E-05 | 0.00 | .61E-06 | 103.568 | .31E-05 | 82.603 | .832E+04 | -19.426 | 3694.550 | 5.566 | .01629 |
| 118. | 3756.393 | 5.146 | .22E-05 | 0.00 | .63E-06 | 101.583 | .31E-05 | 82.428 | .838E+04 | -20.145 | 3695.485 | 5.601 | .01621 |
| 119. | 3757.108 | 5.219 | .22E-05 | 0.00 | .65E-06 | 99.682 | .31E-05 | 82.261 | .844E+04 | -20.866 | 3696.455 | 5.636 | .01614 |
| 120. | 3757.861 | 5.293 | .22E-05 | 0.00 | .66E-06 | 97.862 | .31E-05 | 82.104 | .850E+04 | -21.589 | 3697.460 | 5.671 | .01607 |
| 121. | 3758.654 | 5.368 | .22E-05 | 0.00 | .68E-06 | 96.124 | .31E-05 | 81.956 | .856E+04 | -22.313 | 3698.502 | 5.706 | .01600 |
| 122. | 3759.490 | 5.444 | .22E-05 | 0.00 | .69E-06 | 94.465 | .31E-05 | 81.818 | .863E+04 | -23.038 | 3699.584 | 5.740 | .01593 |
| 123. | 3760.372 | 5.520 | .22E-05 | 0.00 | .71E-06 | 92.884 | .31E-05 | 81.689 | .868E+04 | -23.764 | 3700.709 | 5.774 | .01587 |
| 124. | 3761.302 | 5.596 | .22E-05 | 0.00 | .73E-06 | 91.379 | .31E-05 | 81.569 | .874E+04 | -24.491 | 3701.878 | 5.808 | .01580 |
| 125. | 3762.284 | 5.673 | .22E-05 | 0.00 | .75E-06 | 89.948 | .31E-05 | 81.458 | .880E+04 | -25.218 | 3703.094 | 5.840 | .01573 |
| 126. | 3763.320 | 5.750 | .22E-05 | 0.00 | .77E-06 | 88.588 | .31E-05 | 81.356 | .886E+04 | -25.945 | 3704.361 | 5.871 | .01567 |
| 127. | 3764.414 | 5.826 | .22E-05 | 0.00 | .78E-06 | 87.298 | .31E-05 | 81.263 | .892E+04 | -26.672 | 3705.681 | 5.902 | .01560 |
| 128. | 3765.568 | 5.902 | .22E-05 | 0.00 | .80E-06 | 86.075 | .31E-05 | 81.178 | .898E+04 | -27.398 | 3707.059 | 5.930 | .01554 |
| 129. | 3766.786 | 5.977 | .22E-05 | 0.00 | .82E-06 | 84.917 | .31E-05 | 81.103 | .904E+04 | -28.123 | 3708.496 | 5.958 | .01547 |
| 130. | 3768.071 | 6.052 | .22E-05 | 0.00 | .84E-06 | 83.821 | .31E-05 | 81.035 | .909E+04 | -28.846 | 3709.998 | 5.983 | .01541 |
| 131. | 3769.427 | 6.126 | .22E-05 | 0.00 | .86E-06 | 82.785 | .31E-05 | 80.976 | .915E+04 | -29.567 | 3711.567 | 6.007 | .01535 |
| 132. | 3770.855 | 6.199 | .22E-05 | 0.00 | .87E-06 | 81.808 | .31E-05 | 80.925 | .921E+04 | -30.285 | 3713.207 | 6.029 | .01529 |
| 133. | 3772.359 | 6.270 | .22E-05 | 0.00 | .89E-06 | 80.887 | .31E-05 | 80.882 | .926E+04 | -31.000 | 3714.923 | 6.048 | .01523 |
| 134. | 3773.941 | 6.340 | .23E-05 | 0.00 | .91E-06 | 80.020 | .31E-05 | 80.846 | .931E+04 | -31.712 | 3716.716 | 6.065 | .01516 |
| 135. | 3775.605 | 6.409 | .23E-05 | 0.00 | .93E-06 | 79.204 | .31E-05 | 80.818 | .936E+04 | -32.420 | 3718.592 | 6.079 | .01510 |
| 136. | 3777.352 | 6.476 | .23E-05 | 0.00 | .94E-06 | 78.440 | .31E-05 | 80.796 | .941E+04 | -33.124 | 3720.554 | 6.091 | .01504 |
| 137. | 3779.184 | 6.541 | .23E-05 | 0.00 | .96E-06 | 77.723 | .31E-05 | 80.782 | .946E+04 | -33.823 | 3722.604 | 6.100 | .01497 |
| 138. | 3781.105 | 6.604 | .23E-05 | 0.00 | .98E-06 | 77.054 | .30E-05 | 80.774 | .951E+04 | -34.518 | 3724.747 | 6.106 | .01491 |
| 139. | 3783.114 | 6.665 | .23E-05 | 0.00 | .99E-06 | 76.430 | .30E-05 | 80.773 | .955E+04 | -35.208 | 3726.985 | 6.108 | .01484 |
| 140. | 3785.214 | 6.723 | .23E-05 | 0.00 | .10E-05 | 75.851 | .30E-05 | 80.778 | .960E+04 | -35.894 | 3729.320 | 6.107 | .01477 |
| 141. | 3787.405 | 6.780 | .23E-05 | 0.00 | .10E-05 | 75.314 | .30E-05 | 80.788 | .964E+04 | -36.576 | 3731.756 | 6.103 | .01469 |
| 142. | 3789.689 | 6.834 | .23E-05 | 0.00 | .10E-05 | 74.818 | .30E-05 | 80.805 | .968E+04 | -37.253 | 3734.294 | 6.095 | .01462 |
| 143. | 3792.065 | 6.885 | .23E-05 | 0.00 | .10E-05 | 74.364 | .30E-05 | 80.827 | .971E+04 | -37.926 | 3736.936 | 6.083 | .01454 |
| 144. | 3794.534 | 6.933 | .23E-05 | 0.00 | .11E-05 | 73.949 | .30E-05 | 80.854 | .975E+04 | -38.596 | 3739.683 | 6.068 | .01446 |
| 145. | 3797.096 | 6.978 | .23E-05 | 0.00 | .11E-05 | 73.572 | .30E-05 | 80.886 | .978E+04 | -39.262 | 3742.537 | 6.048 | .01437 |
| 146. | 3799.750 | 7.021 | .23E-05 | 0.00 | .11E-05 | 73.233 | .30E-05 | 80.923 | .981E+04 | -39.926 | 3745.498 | 6.024 | .01428 |
| 147. | 3802.495 | 7.060 | .23E-05 | 0.00 | .11E-05 | 72.932 | .30E-05 | 80.964 | .983E+04 | -40.589 | 3748.565 | 5.996 | .01418 |
| 148. | 3805.330 | 7.095 | .23E-05 | 0.00 | .11E-05 | 72.667 | .30E-05 | 81.009 | .986E+04 | -41.250 | 3751.739 | 5.963 | .01408 |
| 149. | 3808.252 | 7.127 | .23E-05 | 0.00 | .11E-05 | 72.437 | .30E-05 | 81.058 | .988E+04 | -41.911 | 3755.018 | 5.925 | .01398 |

Y-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3811.260 | 7.155 | .23E-05 | 0.00 | .11E-05 | 72.243 | .30E-05 | 81.111 | .990E+04 | -42.573 | 3758.401 | 5.883 | .01387 |
| 151. | 3814.352 | 7.179 | .23E-05 | 0.00 | .11E-05 | 72.084 | .30E-05 | 81.167 | .991E+04 | -43.237 | 3761.886 | 5.835 | .01375 |
| 152. | 3817.523 | 7.199 | .23E-05 | 0.00 | .11E-05 | 71.958 | .30E-05 | 81.226 | .993E+04 | -43.904 | 3765.469 | 5.783 | .01364 |
| 153. | 3820.772 | 7.215 | .23E-05 | 0.00 | .11E-05 | 71.867 | .30E-05 | 81.288 | .994E+04 | -44.575 | 3769.147 | 5.725 | .01351 |
| 154. | 3824.093 | 7.225 | .23E-05 | 0.00 | .12E-05 | 71.808 | .29E-05 | 81.353 | .994E+04 | -45.253 | 3772.916 | 5.662 | .01338 |
| 155. | 3827.484 | 7.230 | .23E-05 | 0.00 | .12E-05 | 71.783 | .29E-05 | 81.420 | .995E+04 | -45.937 | 3776.771 | 5.593 | .01325 |
| 156. | 3830.939 | 7.230 | .23E-05 | 0.00 | .12E-05 | 71.790 | .29E-05 | 81.488 | .995E+04 | -46.631 | 3780.706 | 5.518 | .01311 |
| 157. | 3834.453 | 7.223 | .23E-05 | 0.00 | .12E-05 | 71.830 | .29E-05 | 81.559 | .995E+04 | -47.334 | 3784.713 | 5.437 | .01297 |
| 158. | 3838.020 | 7.210 | .23E-05 | 0.00 | .12E-05 | 71.901 | .29E-05 | 81.630 | .994E+04 | -48.050 | 3788.786 | 5.349 | .01283 |
| 159. | 3841.635 | 7.188 | .23E-05 | 0.00 | .11E-05 | 72.003 | .29E-05 | 81.703 | .994E+04 | -48.780 | 3792.916 | 5.255 | .01268 |
| 160. | 3845.290 | 7.159 | .23E-05 | 0.00 | .11E-05 | 72.136 | .29E-05 | 81.776 | .993E+04 | -49.526 | 3797.092 | 5.153 | .01253 |
| 161. | 3848.979 | 7.120 | .23E-05 | 0.00 | .11E-05 | 72.299 | .29E-05 | 81.849 | .992E+04 | -50.288 | 3801.303 | 5.043 | .01239 |
| 162. | 3852.692 | 7.070 | .23E-05 | 0.00 | .11E-05 | 72.491 | .29E-05 | 81.923 | .992E+04 | -51.069 | 3805.537 | 4.925 | .01224 |
| 163. | 3856.421 | 7.008 | .23E-05 | 0.00 | .11E-05 | 72.713 | .29E-05 | 81.996 | .991E+04 | -51.870 | 3809.779 | 4.798 | .01209 |
| 164. | 3860.155 | 6.932 | .23E-05 | 0.00 | .11E-05 | 72.961 | .29E-05 | 82.068 | .990E+04 | -52.693 | 3814.014 | 4.660 | .01195 |
| 165. | 3863.884 | 6.839 | .23E-05 | 0.00 | .11E-05 | 73.237 | .29E-05 | 82.139 | .989E+04 | -53.536 | 3818.223 | 4.512 | .01182 |
| 166. | 3867.594 | 6.728 | .23E-05 | 0.00 | .10E-05 | 73.537 | .29E-05 | 82.209 | .989E+04 | -54.401 | 3822.387 | 4.351 | .01169 |
| 167. | 3871.271 | 6.594 | .23E-05 | 0.00 | .10E-05 | 73.861 | .29E-05 | 82.277 | .989E+04 | -55.286 | 3826.483 | 4.176 | .01157 |
| 168. | 3874.898 | 6.434 | .23E-05 | 0.00 | .10E-05 | 74.205 | .29E-05 | 82.342 | .989E+04 | -56.189 | 3830.487 | 3.987 | .01146 |
| 169. | 3878.455 | 6.243 | .23E-05 | 0.00 | .96E-06 | 74.566 | .29E-05 | 82.404 | .990E+04 | -57.107 | 3834.372 | 3.780 | .01137 |
| 170. | 3881.920 | 6.014 | .23E-05 | 0.00 | .92E-06 | 74.945 | .29E-05 | 82.464 | .992E+04 | -58.033 | 3838.107 | 3.554 | .01129 |
| 171. | 3885.265 | 5.741 | .24E-05 | 0.00 | .87E-06 | 75.331 | .29E-05 | 82.519 | .995E+04 | -58.960 | 3841.659 | 3.307 | .01122 |
| 172. | 3888.459 | 5.414 | .24E-05 | 0.00 | .81E-06 | 75.721 | .29E-05 | 82.571 | .998E+04 | -59.877 | 3844.994 | 3.037 | .01118 |
| 173. | 3891.466 | 5.025 | .24E-05 | 0.00 | .75E-06 | 76.108 | .30E-05 | 82.617 | .100E+05 | -60.769 | 3848.072 | 2.742 | .01115 |
| 174. | 3894.241 | 4.562 | .24E-05 | 0.00 | .67E-06 | 76.482 | .30E-05 | 82.659 | .101E+05 | -61.619 | 3850.855 | 2.420 | .01114 |
| 175. | 3896.735 | 4.014 | .24E-05 | 0.00 | .58E-06 | 76.833 | .30E-05 | 82.695 | .101E+05 | -62.406 | 3853.301 | 2.071 | .01115 |
| 176. | 3898.893 | 3.375 | .24E-05 | 0.00 | .49E-06 | 77.148 | .30E-05 | 82.725 | .102E+05 | -63.103 | 3855.370 | 1.696 | .01116 |
| 177. | 3900.656 | 2.642 | .25E-05 | 0.00 | .38E-06 | 77.414 | .30E-05 | 82.749 | .103E+05 | -63.686 | 3857.025 | 1.297 | .01119 |
| 178. | 3901.967 | 1.820 | .25E-05 | 0.00 | .26E-06 | 77.616 | .30E-05 | 82.767 | .103E+05 | -64.126 | 3858.233 | .877 | .01121 |
| 179. | 3902.777 | .929 | .25E-05 | 0.00 | .13E-06 | 77.743 | .30E-05 | 82.777 | .103E+05 | -64.400 | 3858.969 | .442 | .01122 |
| 180. | 3903.050 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .30E-05 | 82.781 | .103E+05 | -64.494 | 3859.216 | 0.000 | .01123 |

Z-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3487.762 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.303 | .145E+05 | -175.413 | 3403.745 | 0.000 | .02409 |
| 1. | 3487.748 | .117 | .18E-05 | 0.00 | .10E-07 | -128.589 | .26E-05 | 90.303 | .145E+05 | -175.420 | 3403.720 | .184 | .02409 |
| 2. | 3487.706 | .233 | .18E-05 | 0.00 | .21E-07 | -128.802 | .26E-05 | 90.304 | .145E+05 | -175.441 | 3403.646 | .367 | .02410 |
| 3. | 3487.637 | .347 | .18E-05 | 0.00 | .31E-07 | -129.157 | .26E-05 | 90.305 | .145E+05 | -175.475 | 3403.523 | .547 | .02412 |
| 4. | 3487.541 | .458 | .18E-05 | 0.00 | .41E-07 | -129.653 | .26E-05 | 90.307 | .145E+05 | -175.523 | 3403.353 | .724 | .02414 |
| 5. | 3487.421 | .566 | .18E-05 | 0.00 | .50E-07 | -130.287 | .26E-05 | 90.309 | .145E+05 | -175.585 | 3403.139 | .897 | .02417 |
| 6. | 3487.278 | .670 | .18E-05 | 0.00 | .59E-07 | -131.059 | .26E-05 | 90.310 | .145E+05 | -175.659 | 3402.884 | 1.064 | .02420 |
| 7. | 3487.113 | .769 | .18E-05 | 0.00 | .68E-07 | -131.964 | .26E-05 | 90.312 | .145E+05 | -175.745 | 3402.591 | 1.225 | .02424 |
| 8. | 3486.930 | .864 | .18E-05 | 0.00 | .76E-07 | -133.002 | .26E-05 | 90.313 | .145E+05 | -175.844 | 3402.264 | 1.380 | .02428 |
| 9. | 3486.729 | .953 | .18E-05 | 0.00 | .83E-07 | -134.168 | .26E-05 | 90.313 | .145E+05 | -175.955 | 3401.908 | 1.527 | .02433 |
| 10. | 3486.515 | 1.036 | .18E-05 | 0.00 | .90E-07 | -135.459 | .26E-05 | 90.313 | .145E+05 | -176.076 | 3401.527 | 1.667 | .02438 |
| 11. | 3486.289 | 1.114 | .18E-05 | 0.00 | .97E-07 | -136.871 | .26E-05 | 90.311 | .145E+05 | -176.208 | 3401.126 | 1.799 | .02443 |
| 12. | 3486.055 | 1.186 | .18E-05 | 0.00 | .10E-06 | -138.401 | .26E-05 | 90.309 | .145E+05 | -176.350 | 3400.710 | 1.922 | .02448 |
| 13. | 3485.814 | 1.253 | .18E-05 | 0.00 | .11E-06 | -140.044 | .26E-05 | 90.304 | .145E+05 | -176.501 | 3400.284 | 2.037 | .02454 |
| 14. | 3485.571 | 1.314 | .18E-05 | 0.00 | .11E-06 | -141.795 | .26E-05 | 90.299 | .145E+05 | -176.661 | 3399.853 | 2.144 | .02459 |
| 15. | 3485.327 | 1.370 | .18E-05 | 0.00 | .12E-06 | -143.649 | .26E-05 | 90.291 | .145E+05 | -176.830 | 3399.422 | 2.243 | .02465 |
| 16. | 3485.085 | 1.421 | .18E-05 | 0.00 | .12E-06 | -145.603 | .26E-05 | 90.282 | .145E+05 | -177.006 | 3398.995 | 2.334 | .02470 |
| 17. | 3484.848 | 1.467 | .18E-05 | 0.00 | .12E-06 | -147.649 | .26E-05 | 90.271 | .145E+05 | -177.190 | 3398.578 | 2.417 | .02476 |
| 18. | 3484.617 | 1.509 | .18E-05 | 0.00 | .13E-06 | -149.784 | .26E-05 | 90.258 | .145E+05 | -177.380 | 3398.174 | 2.493 | .02481 |
| 19. | 3484.397 | 1.546 | .18E-05 | 0.00 | .13E-06 | -152.001 | .26E-05 | 90.244 | .145E+05 | -177.577 | 3397.787 | 2.561 | .02486 |
| 20. | 3484.188 | 1.580 | .18E-05 | 0.00 | .13E-06 | -154.294 | .26E-05 | 90.227 | .145E+05 | -177.779 | 3397.421 | 2.622 | .02490 |
| 21. | 3483.992 | 1.609 | .18E-05 | 0.00 | .13E-06 | -156.658 | .26E-05 | 90.210 | .145E+05 | -177.986 | 3397.079 | 2.676 | .02495 |
| 22. | 3483.813 | 1.634 | .18E-05 | 0.00 | .14E-06 | -159.085 | .26E-05 | 90.190 | .145E+05 | -178.198 | 3396.766 | 2.724 | .02499 |
| 23. | 3483.650 | 1.657 | .18E-05 | 0.00 | .14E-06 | -161.571 | .26E-05 | 90.170 | .145E+05 | -178.415 | 3396.482 | 2.765 | .02502 |
| 24. | 3483.506 | 1.676 | .18E-05 | 0.00 | .14E-06 | -164.107 | .26E-05 | 90.148 | .145E+05 | -178.634 | 3396.232 | 2.800 | .02505 |
| 25. | 3483.381 | 1.691 | .18E-05 | 0.00 | .14E-06 | -166.688 | .26E-05 | 90.125 | .145E+05 | -178.857 | 3396.016 | 2.830 | .02508 |
| 26. | 3483.278 | 1.704 | .18E-05 | 0.00 | .14E-06 | -169.305 | .26E-05 | 90.101 | .145E+05 | -179.083 | 3395.837 | 2.854 | .02510 |
| 27. | 3483.197 | 1.714 | .18E-05 | 0.00 | .14E-06 | -171.953 | .26E-05 | 90.077 | .145E+05 | -179.310 | 3395.697 | 2.873 | .02512 |
| 28. | 3483.139 | 1.721 | .18E-05 | 0.00 | .14E-06 | -174.622 | .26E-05 | 90.051 | .145E+05 | -179.539 | 3395.595 | 2.886 | .02513 |
| 29. | 3483.103 | 1.725 | .18E-05 | 0.00 | .14E-06 | -177.307 | .26E-05 | 90.026 | .145E+05 | -179.769 | 3395.534 | 2.893 | .02514 |
| 30. | 3483.092 | 1.726 | .18E-05 | 0.00 | .14E-06 | 180.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3395.514 | 2.896 | .02514 |
| 31. | 3483.103 | 1.725 | .18E-05 | 0.00 | .14E-06 | 177.307 | .26E-05 | 89.974 | .145E+05 | 179.769 | 3395.534 | 2.893 | .02514 |
| 32. | 3483.139 | 1.721 | .18E-05 | 0.00 | .14E-06 | 174.622 | .26E-05 | 89.949 | .145E+05 | 179.539 | 3395.595 | 2.886 | .02513 |
| 33. | 3483.197 | 1.714 | .18E-05 | 0.00 | .14E-06 | 171.953 | .26E-05 | 89.923 | .145E+05 | 179.310 | 3395.697 | 2.873 | .02512 |
| 34. | 3483.278 | 1.704 | .18E-05 | 0.00 | .14E-06 | 169.305 | .26E-05 | 89.899 | .145E+05 | 179.083 | 3395.837 | 2.854 | .02510 |
| 35. | 3483.381 | 1.691 | .18E-05 | 0.00 | .14E-06 | 166.688 | .26E-05 | 89.875 | .145E+05 | 178.857 | 3396.016 | 2.830 | .02508 |
| 36. | 3483.506 | 1.676 | .18E-05 | 0.00 | .14E-06 | 164.107 | .26E-05 | 89.852 | .145E+05 | 178.634 | 3396.232 | 2.800 | .02505 |
| 37. | 3483.650 | 1.657 | .18E-05 | 0.00 | .14E-06 | 161.571 | .26E-05 | 89.830 | .145E+05 | 178.415 | 3396.482 | 2.765 | .02502 |
| 38. | 3483.813 | 1.634 | .18E-05 | 0.00 | .14E-06 | 159.085 | .26E-05 | 89.810 | .145E+05 | 178.198 | 3396.766 | 2.724 | .02499 |
| 39. | 3483.992 | 1.609 | .18E-05 | 0.00 | .13E-06 | 156.658 | .26E-05 | 89.790 | .145E+05 | 177.986 | 3397.079 | 2.676 | .02495 |
| 40. | 3484.188 | 1.580 | .18E-05 | 0.00 | .13E-06 | 154.294 | .26E-05 | 89.773 | .145E+05 | 177.779 | 3397.421 | 2.622 | .02490 |
| 41. | 3484.397 | 1.546 | .18E-05 | 0.00 | .13E-06 | 152.001 | .26E-05 | 89.756 | .145E+05 | 177.577 | 3397.787 | 2.561 | .02486 |
| 42. | 3484.617 | 1.509 | .18E-05 | 0.00 | .13E-06 | 149.784 | .26E-05 | 89.742 | .145E+05 | 177.380 | 3398.174 | 2.493 | .02481 |
| 43. | 3484.848 | 1.467 | .18E-05 | 0.00 | .12E-06 | 147.649 | .26E-05 | 89.729 | .145E+05 | 177.190 | 3398.578 | 2.417 | .02476 |
| 44. | 3485.085 | 1.421 | .18E-05 | 0.00 | .12E-06 | 145.603 | .26E-05 | 89.718 | .145E+05 | 177.006 | 3398.995 | 2.334 | .02470 |
| 45. | 3485.327 | 1.370 | .18E-05 | 0.00 | .12E-06 | 143.649 | .26E-05 | 89.709 | .145E+05 | 176.830 | 3399.422 | 2.243 | .02465 |
| 46. | 3485.571 | 1.314 | .18E-05 | 0.00 | .11E-06 | 141.795 | .26E-05 | 89.701 | .145E+05 | 176.661 | 3399.853 | 2.144 | .02459 |
| 47. | 3485.814 | 1.253 | .18E-05 | 0.00 | .11E-06 | 140.044 | .26E-05 | 89.696 | .145E+05 | 176.501 | 3400.284 | 2.037 | .02454 |
| 48. | 3486.055 | 1.186 | .18E-05 | 0.00 | .10E-06 | 138.401 | .26E-05 | 89.691 | .145E+05 | 176.350 | 3400.710 | 1.922 | .02448 |
| 49. | 3486.289 | 1.114 | .18E-05 | 0.00 | .97E-07 | 136.871 | .26E-05 | 89.689 | .145E+05 | 176.208 | 3401.126 | 1.799 | .02443 |

Z-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3486.515 | 1.036 | .18E-05 | 0.00 | .90E-07 | 135.459 | .26E-05 | 89.687 | .145E+05 | 176.076 | 3401.527 | 1.667 | .02438 |
| 51. | 3486.729 | .953 | .18E-05 | 0.00 | .83E-07 | 134.168 | .26E-05 | 89.687 | .145E+05 | 175.955 | 3401.908 | 1.527 | .02433 |
| 52. | 3486.930 | .864 | .18E-05 | 0.00 | .76E-07 | 133.002 | .26E-05 | 89.687 | .145E+05 | 175.844 | 3402.264 | 1.380 | .02428 |
| 53. | 3487.113 | .769 | .18E-05 | 0.00 | .68E-07 | 131.964 | .26E-05 | 89.688 | .145E+05 | 175.745 | 3402.591 | 1.225 | .02424 |
| 54. | 3487.278 | .670 | .18E-05 | 0.00 | .59E-07 | 131.059 | .26E-05 | 89.690 | .145E+05 | 175.659 | 3402.884 | 1.064 | .02420 |
| 55. | 3487.421 | .566 | .18E-05 | 0.00 | .50E-07 | 130.287 | .26E-05 | 89.691 | .145E+05 | 175.585 | 3403.139 | .897 | .02417 |
| 56. | 3487.541 | .458 | .18E-05 | 0.00 | .41E-07 | 129.653 | .26E-05 | 89.693 | .145E+05 | 175.523 | 3403.353 | .724 | .02414 |
| 57. | 3487.637 | .347 | .18E-05 | 0.00 | .31E-07 | 129.157 | .26E-05 | 89.695 | .145E+05 | 175.475 | 3403.523 | .547 | .02412 |
| 58. | 3487.706 | .233 | .18E-05 | 0.00 | .21E-07 | 128.802 | .26E-05 | 89.696 | .145E+05 | 175.441 | 3403.646 | .367 | .02410 |
| 59. | 3487.748 | .117 | .18E-05 | 0.00 | .10E-07 | 128.589 | .26E-05 | 89.697 | .145E+05 | 175.420 | 3403.720 | .184 | .02409 |
| 60. | 3487.762 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.697 | .145E+05 | 175.413 | 3403.745 | 0.000 | .02409 |
| 61. | 3487.748 | -.117 | .18E-05 | 0.00 | .10E-07 | -51.411 | .26E-05 | 89.697 | .145E+05 | 175.420 | 3403.720 | -.184 | .02409 |
| 62. | 3487.706 | -.233 | .18E-05 | 0.00 | .21E-07 | -51.198 | .26E-05 | 89.696 | .145E+05 | 175.441 | 3403.646 | -.367 | .02410 |
| 63. | 3487.637 | -.347 | .18E-05 | 0.00 | .31E-07 | -50.843 | .26E-05 | 89.695 | .145E+05 | 175.475 | 3403.523 | -.547 | .02412 |
| 64. | 3487.541 | -.458 | .18E-05 | 0.00 | .41E-07 | -50.347 | .26E-05 | 89.693 | .145E+05 | 175.523 | 3403.353 | -.724 | .02414 |
| 65. | 3487.421 | -.566 | .18E-05 | 0.00 | .50E-07 | -49.713 | .26E-05 | 89.691 | .145E+05 | 175.585 | 3403.139 | -.897 | .02417 |
| 66. | 3487.278 | -.670 | .18E-05 | 0.00 | .59E-07 | -48.941 | .26E-05 | 89.690 | .145E+05 | 175.659 | 3402.884 | -1.064 | .02420 |
| 67. | 3487.113 | -.769 | .18E-05 | 0.00 | .68E-07 | -48.036 | .26E-05 | 89.688 | .145E+05 | 175.745 | 3402.591 | -1.225 | .02424 |
| 68. | 3486.930 | -.864 | .18E-05 | 0.00 | .76E-07 | -46.998 | .26E-05 | 89.687 | .145E+05 | 175.844 | 3402.264 | -1.380 | .02428 |
| 69. | 3486.729 | -.953 | .18E-05 | 0.00 | .83E-07 | -45.832 | .26E-05 | 89.687 | .145E+05 | 175.955 | 3401.908 | -1.527 | .02433 |
| 70. | 3486.515 | -1.036 | .18E-05 | 0.00 | .90E-07 | -44.541 | .26E-05 | 89.687 | .145E+05 | 176.076 | 3401.527 | -1.667 | .02438 |
| 71. | 3486.289 | -1.114 | .18E-05 | 0.00 | .97E-07 | -43.129 | .26E-05 | 89.689 | .145E+05 | 176.208 | 3401.126 | -1.799 | .02443 |
| 72. | 3486.055 | -1.186 | .18E-05 | 0.00 | .10E-06 | -41.599 | .26E-05 | 89.691 | .145E+05 | 176.350 | 3400.710 | -1.922 | .02448 |
| 73. | 3485.814 | -1.253 | .18E-05 | 0.00 | .11E-06 | -39.956 | .26E-05 | 89.696 | .145E+05 | 176.501 | 3400.284 | -2.037 | .02454 |
| 74. | 3485.571 | -1.314 | .18E-05 | 0.00 | .11E-06 | -38.205 | .26E-05 | 89.701 | .145E+05 | 176.661 | 3399.853 | -2.144 | .02459 |
| 75. | 3485.327 | -1.370 | .18E-05 | 0.00 | .12E-06 | -36.351 | .26E-05 | 89.709 | .145E+05 | 176.830 | 3399.422 | -2.243 | .02465 |
| 76. | 4591.326 | -1.421 | .18E-05 | 0.00 | .12E-06 | -34.397 | .26E-05 | 89.718 | .145E+05 | 177.006 | 3398.995 | -2.334 | .02470 |
| 77. | 4592.250 | -1.467 | .18E-05 | 0.00 | .12E-06 | -32.351 | .26E-05 | 89.729 | .145E+05 | 177.190 | 3398.578 | -2.417 | .02476 |
| 78. | 4593.126 | -1.509 | .18E-05 | 0.00 | .13E-06 | -30.216 | .26E-05 | 89.742 | .145E+05 | 177.380 | 3398.174 | -2.493 | .02481 |
| 79. | 4593.950 | -1.546 | .18E-05 | 0.00 | .13E-06 | -27.999 | .26E-05 | 89.756 | .145E+05 | 177.577 | 3397.787 | -2.561 | .02486 |
| 80. | 4594.719 | -1.580 | .18E-05 | 0.00 | .13E-06 | -25.706 | .26E-05 | 89.773 | .145E+05 | 177.779 | 3397.421 | -2.622 | .02490 |
| 81. | 4595.426 | -1.609 | .18E-05 | 0.00 | .13E-06 | -23.342 | .26E-05 | 89.790 | .145E+05 | 177.986 | 3397.079 | -2.676 | .02495 |
| 82. | 4596.070 | -1.634 | .18E-05 | 0.00 | .14E-06 | -20.915 | .26E-05 | 89.810 | .145E+05 | 178.198 | 3396.766 | -2.724 | .02499 |
| 83. | 4596.647 | -1.657 | .18E-05 | 0.00 | .14E-06 | -18.429 | .26E-05 | 89.830 | .145E+05 | 178.415 | 3396.482 | -2.765 | .02502 |
| 84. | 4597.153 | -1.676 | .18E-05 | 0.00 | .14E-06 | -15.893 | .26E-05 | 89.852 | .145E+05 | 178.634 | 3396.232 | -2.800 | .02505 |
| 85. | 4597.586 | -1.691 | .18E-05 | 0.00 | .14E-06 | -13.312 | .26E-05 | 89.875 | .145E+05 | 178.857 | 3396.016 | -2.830 | .02508 |
| 86. | 3483.278 | -1.704 | .18E-05 | 0.00 | .14E-06 | -10.695 | .26E-05 | 89.899 | .145E+05 | 179.083 | 3395.837 | -2.854 | .02510 |
| 87. | 3483.197 | -1.714 | .18E-05 | 0.00 | .14E-06 | -8.047 | .26E-05 | 89.923 | .145E+05 | 179.310 | 3395.697 | -2.873 | .02512 |
| 88. | 3483.139 | -1.721 | .18E-05 | 0.00 | .14E-06 | -5.378 | .26E-05 | 89.949 | .145E+05 | 179.539 | 3395.595 | -2.886 | .02513 |
| 89. | 3483.103 | -1.725 | .18E-05 | 0.00 | .14E-06 | -2.693 | .26E-05 | 89.974 | .145E+05 | 179.769 | 3395.534 | -2.893 | .02514 |
| 90. | 3483.092 | -1.726 | .18E-05 | 0.00 | .14E-06 | 0.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3395.514 | -2.896 | .02514 |
| 91. | 3483.103 | -1.725 | .18E-05 | 0.00 | .14E-06 | 2.693 | .26E-05 | 90.026 | .145E+05 | -179.769 | 3395.534 | -2.893 | .02514 |
| 92. | 3483.139 | -1.721 | .18E-05 | 0.00 | .14E-06 | 5.378 | .26E-05 | 90.051 | .145E+05 | -179.539 | 3395.595 | -2.886 | .02513 |
| 93. | 3483.197 | -1.714 | .18E-05 | 0.00 | .14E-06 | 8.047 | .26E-05 | 90.077 | .145E+05 | -179.310 | 3395.697 | -2.873 | .02512 |
| 94. | 3483.278 | -1.704 | .18E-05 | 0.00 | .14E-06 | 10.695 | .26E-05 | 90.101 | .145E+05 | -179.083 | 3395.837 | -2.854 | .02510 |
| 95. | 3483.381 | -1.691 | .18E-05 | 0.00 | .14E-06 | 13.312 | .26E-05 | 90.125 | .145E+05 | -178.857 | 3396.016 | -2.830 | .02508 |
| 96. | 3483.506 | -1.676 | .18E-05 | 0.00 | .14E-06 | 15.893 | .26E-05 | 90.148 | .145E+05 | -178.634 | 3396.232 | -2.800 | .02505 |
| 97. | 3483.650 | -1.657 | .18E-05 | 0.00 | .14E-06 | 18.429 | .26E-05 | 90.170 | .145E+05 | -178.415 | 3396.482 | -2.765 | .02502 |
| 98. | 3483.813 | -1.634 | .18E-05 | 0.00 | .14E-06 | 20.915 | .26E-05 | 90.190 | .145E+05 | -178.198 | 3396.766 | -2.724 | .02499 |
| 99. | 3483.992 | -1.609 | .18E-05 | 0.00 | .13E-06 | 23.342 | .26E-05 | 90.210 | .145E+05 | -177.986 | 3397.079 | -2.676 | .02495 |

Z-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3484.188 | -1.580 | .18E-05 | 0.00 | .13E-06 | 25.706 | .26E-05 | 90.227 | .145E+05 | -177.779 | 3397.421 | -2.622 | .02490 |
| 101. | 3484.397 | -1.546 | .18E-05 | 0.00 | .13E-06 | 27.999 | .26E-05 | 90.244 | .145E+05 | -177.577 | 3397.787 | -2.561 | .02486 |
| 102. | 3484.617 | -1.509 | .18E-05 | 0.00 | .13E-06 | 30.216 | .26E-05 | 90.258 | .145E+05 | -177.380 | 3398.174 | -2.493 | .02481 |
| 103. | 3484.848 | -1.467 | .18E-05 | 0.00 | .12E-06 | 32.351 | .26E-05 | 90.271 | .145E+05 | -177.190 | 3398.578 | -2.417 | .02476 |
| 104. | 3485.085 | -1.421 | .18E-05 | 0.00 | .12E-06 | 34.397 | .26E-05 | 90.282 | .145E+05 | -177.006 | 3398.995 | -2.334 | .02470 |
| 105. | 3485.327 | -1.370 | .18E-05 | 0.00 | .12E-06 | 36.351 | .26E-05 | 90.291 | .145E+05 | -176.830 | 3399.422 | -2.243 | .02465 |
| 106. | 3485.571 | -1.314 | .18E-05 | 0.00 | .11E-06 | 38.205 | .26E-05 | 90.299 | .145E+05 | -176.661 | 3399.853 | -2.144 | .02459 |
| 107. | 3485.814 | -1.253 | .18E-05 | 0.00 | .11E-06 | 39.956 | .26E-05 | 90.304 | .145E+05 | -176.501 | 3400.284 | -2.037 | .02454 |
| 108. | 3486.055 | -1.186 | .18E-05 | 0.00 | .10E-06 | 41.599 | .26E-05 | 90.309 | .145E+05 | -176.350 | 3400.710 | -1.922 | .02448 |
| 109. | 3486.289 | -1.114 | .18E-05 | 0.00 | .97E-07 | 43.129 | .26E-05 | 90.311 | .145E+05 | -176.208 | 3401.126 | -1.799 | .02443 |
| 110. | 3486.515 | -1.036 | .18E-05 | 0.00 | .90E-07 | 44.541 | .26E-05 | 90.313 | .145E+05 | -176.076 | 3401.527 | -1.667 | .02438 |
| 111. | 3486.729 | -.953 | .18E-05 | 0.00 | .83E-07 | 45.832 | .26E-05 | 90.313 | .145E+05 | -175.955 | 3401.908 | -1.527 | .02433 |
| 112. | 3486.930 | -.864 | .18E-05 | 0.00 | .76E-07 | 46.998 | .26E-05 | 90.313 | .145E+05 | -175.844 | 3402.264 | -1.380 | .02428 |
| 113. | 3487.113 | -.769 | .18E-05 | 0.00 | .68E-07 | 48.036 | .26E-05 | 90.312 | .145E+05 | -175.745 | 3402.591 | -1.225 | .02424 |
| 114. | 3487.278 | -.670 | .18E-05 | 0.00 | .59E-07 | 48.941 | .26E-05 | 90.310 | .145E+05 | -175.659 | 3402.884 | -1.064 | .02420 |
| 115. | 3487.421 | -.566 | .18E-05 | 0.00 | .50E-07 | 49.713 | .26E-05 | 90.309 | .145E+05 | -175.585 | 3403.139 | -.897 | .02417 |
| 116. | 3487.541 | -.458 | .18E-05 | 0.00 | .41E-07 | 50.347 | .26E-05 | 90.307 | .145E+05 | -175.523 | 3403.353 | -.724 | .02414 |
| 117. | 3487.637 | -.347 | .18E-05 | 0.00 | .31E-07 | 50.843 | .26E-05 | 90.305 | .145E+05 | -175.475 | 3403.523 | -.547 | .02412 |
| 118. | 3487.706 | -.233 | .18E-05 | 0.00 | .21E-07 | 51.198 | .26E-05 | 90.304 | .145E+05 | -175.441 | 3403.646 | -.367 | .02410 |
| 119. | 3487.748 | -.117 | .18E-05 | 0.00 | .10E-07 | 51.411 | .26E-05 | 90.303 | .145E+05 | -175.420 | 3403.720 | -.184 | .02409 |
| 120. | 3487.762 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.303 | .145E+05 | -175.413 | 3403.745 | 0.000 | .02409 |
| 121. | 3487.748 | .117 | .18E-05 | 0.00 | .10E-07 | -128.589 | .26E-05 | 90.303 | .145E+05 | -175.420 | 3403.720 | .184 | .02409 |
| 122. | 3487.706 | .233 | .18E-05 | 0.00 | .21E-07 | -128.802 | .26E-05 | 90.304 | .145E+05 | -175.441 | 3403.646 | .367 | .02410 |
| 123. | 3487.637 | .347 | .18E-05 | 0.00 | .31E-07 | -129.157 | .26E-05 | 90.305 | .145E+05 | -175.475 | 3403.523 | .547 | .02412 |
| 124. | 3487.541 | .458 | .18E-05 | 0.00 | .41E-07 | -129.653 | .26E-05 | 90.307 | .145E+05 | -175.523 | 3403.353 | .724 | .02414 |
| 125. | 3487.421 | .566 | .18E-05 | 0.00 | .50E-07 | -130.287 | .26E-05 | 90.309 | .145E+05 | -175.585 | 3403.139 | .897 | .02417 |
| 126. | 3487.278 | .670 | .18E-05 | 0.00 | .59E-07 | -131.059 | .26E-05 | 90.310 | .145E+05 | -175.659 | 3402.884 | 1.064 | .02420 |
| 127. | 3487.113 | .769 | .18E-05 | 0.00 | .68E-07 | -131.964 | .26E-05 | 90.312 | .145E+05 | -175.745 | 3402.591 | 1.225 | .02424 |
| 128. | 3486.930 | .864 | .18E-05 | 0.00 | .76E-07 | -133.002 | .26E-05 | 90.313 | .145E+05 | -175.844 | 3402.264 | 1.380 | .02428 |
| 129. | 3486.729 | .953 | .18E-05 | 0.00 | .83E-07 | -134.168 | .26E-05 | 90.313 | .145E+05 | -175.955 | 3401.908 | 1.527 | .02433 |
| 130. | 3486.515 | 1.036 | .18E-05 | 0.00 | .90E-07 | -135.459 | .26E-05 | 90.313 | .145E+05 | -176.076 | 3401.527 | 1.667 | .02438 |
| 131. | 3486.289 | 1.114 | .18E-05 | 0.00 | .97E-07 | -136.871 | .26E-05 | 90.311 | .145E+05 | -176.208 | 3401.126 | 1.799 | .02443 |
| 132. | 3486.055 | 1.186 | .18E-05 | 0.00 | .10E-06 | -138.401 | .26E-05 | 90.309 | .145E+05 | -176.350 | 3400.710 | 1.922 | .02448 |
| 133. | 3485.814 | 1.253 | .18E-05 | 0.00 | .11E-06 | -140.044 | .26E-05 | 90.304 | .145E+05 | -176.501 | 3400.284 | 2.037 | .02454 |
| 134. | 3485.571 | 1.314 | .18E-05 | 0.00 | .11E-06 | -141.795 | .26E-05 | 90.299 | .145E+05 | -176.661 | 3399.853 | 2.144 | .02459 |
| 135. | 3485.327 | 1.370 | .18E-05 | 0.00 | .12E-06 | -143.649 | .26E-05 | 90.291 | .145E+05 | -176.830 | 3399.422 | 2.243 | .02465 |
| 136. | 3485.085 | 1.421 | .18E-05 | 0.00 | .12E-06 | -145.603 | .26E-05 | 90.282 | .145E+05 | -177.006 | 3398.995 | 2.334 | .02470 |
| 137. | 3484.848 | 1.467 | .18E-05 | 0.00 | .12E-06 | -147.649 | .26E-05 | 90.271 | .145E+05 | -177.190 | 3398.578 | 2.417 | .02476 |
| 138. | 3484.617 | 1.509 | .18E-05 | 0.00 | .13E-06 | -149.784 | .26E-05 | 90.258 | .145E+05 | -177.380 | 3398.174 | 2.493 | .02481 |
| 139. | 3484.397 | 1.546 | .18E-05 | 0.00 | .13E-06 | -152.001 | .26E-05 | 90.244 | .145E+05 | -177.577 | 3397.787 | 2.561 | .02486 |
| 140. | 3484.188 | 1.580 | .18E-05 | 0.00 | .13E-06 | -154.294 | .26E-05 | 90.227 | .145E+05 | -177.779 | 3397.421 | 2.622 | .02490 |
| 141. | 3483.992 | 1.609 | .18E-05 | 0.00 | .13E-06 | -156.658 | .26E-05 | 90.210 | .145E+05 | -177.986 | 3397.079 | 2.676 | .02495 |
| 142. | 3483.813 | 1.634 | .18E-05 | 0.00 | .14E-06 | -159.085 | .26E-05 | 90.190 | .145E+05 | -178.198 | 3396.766 | 2.724 | .02499 |
| 143. | 3483.650 | 1.657 | .18E-05 | 0.00 | .14E-06 | -161.571 | .26E-05 | 90.170 | .145E+05 | -178.415 | 3396.482 | 2.765 | .02502 |
| 144. | 3483.506 | 1.676 | .18E-05 | 0.00 | .14E-06 | -164.107 | .26E-05 | 90.148 | .145E+05 | -178.634 | 3396.232 | 2.800 | .02505 |
| 145. | 3483.381 | 1.691 | .18E-05 | 0.00 | .14E-06 | -166.688 | .26E-05 | 90.125 | .145E+05 | -178.857 | 3396.016 | 2.830 | .02508 |
| 146. | 3483.278 | 1.704 | .18E-05 | 0.00 | .14E-06 | -169.305 | .26E-05 | 90.101 | .145E+05 | -179.083 | 3395.837 | 2.854 | .02510 |
| 147. | 3483.197 | 1.714 | .18E-05 | 0.00 | .14E-06 | -171.953 | .26E-05 | 90.077 | .145E+05 | -179.310 | 3395.697 | 2.873 | .02512 |
| 148. | 3483.139 | 1.721 | .18E-05 | 0.00 | .14E-06 | -174.622 | .26E-05 | 90.051 | .145E+05 | -179.539 | 3395.595 | 2.886 | .02513 |
| 149. | 3483.103 | 1.725 | .18E-05 | 0.00 | .14E-06 | -177.307 | .26E-05 | 90.026 | .145E+05 | -179.769 | 3395.534 | 2.893 | .02514 |

Z-AXIS BOULE LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3483.092 | 1.726 | .18E-05 | 0.00 | .14E-06 | 180.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3395.514 | 2.896 | .02514 |
| 151. | 3483.103 | 1.725 | .18E-05 | 0.00 | .14E-06 | 177.307 | .26E-05 | 89.974 | .145E+05 | 179.769 | 3395.534 | 2.893 | .02514 |
| 152. | 3483.139 | 1.721 | .18E-05 | 0.00 | .14E-06 | 174.622 | .26E-05 | 89.949 | .145E+05 | 179.539 | 3395.595 | 2.886 | .02513 |
| 153. | 3483.197 | 1.714 | .18E-05 | 0.00 | .14E-06 | 171.953 | .26E-05 | 89.923 | .145E+05 | 179.310 | 3395.697 | 2.873 | .02512 |
| 154. | 3483.278 | 1.704 | .18E-05 | 0.00 | .14E-06 | 169.305 | .26E-05 | 89.899 | .145E+05 | 179.083 | 3395.837 | 2.854 | .02510 |
| 155. | 3483.381 | 1.691 | .18E-05 | 0.00 | .14E-06 | 166.688 | .26E-05 | 89.875 | .145E+05 | 178.857 | 3396.016 | 2.830 | .02508 |
| 156. | 3483.506 | 1.676 | .18E-05 | 0.00 | .14E-06 | 164.107 | .26E-05 | 89.852 | .145E+05 | 178.634 | 3396.232 | 2.800 | .02505 |
| 157. | 3483.650 | 1.657 | .18E-05 | 0.00 | .14E-06 | 161.571 | .26E-05 | 89.830 | .145E+05 | 178.415 | 3396.482 | 2.765 | .02502 |
| 158. | 3483.813 | 1.634 | .18E-05 | 0.00 | .14E-06 | 159.085 | .26E-05 | 89.810 | .145E+05 | 178.198 | 3396.766 | 2.724 | .02499 |
| 159. | 3483.992 | 1.609 | .18E-05 | 0.00 | .13E-06 | 156.658 | .26E-05 | 89.790 | .145E+05 | 177.986 | 3397.079 | 2.676 | .02495 |
| 160. | 3484.188 | 1.580 | .18E-05 | 0.00 | .13E-06 | 154.294 | .26E-05 | 89.773 | .145E+05 | 177.779 | 3397.421 | 2.622 | .02490 |
| 161. | 3484.397 | 1.546 | .18E-05 | 0.00 | .13E-06 | 152.001 | .26E-05 | 89.756 | .145E+05 | 177.577 | 3397.787 | 2.561 | .02486 |
| 162. | 3484.617 | 1.509 | .18E-05 | 0.00 | .13E-06 | 149.784 | .26E-05 | 89.742 | .145E+05 | 177.380 | 3398.174 | 2.493 | .02481 |
| 163. | 3484.848 | 1.467 | .18E-05 | 0.00 | .12E-06 | 147.649 | .26E-05 | 89.729 | .145E+05 | 177.190 | 3398.578 | 2.417 | .02476 |
| 164. | 3485.085 | 1.421 | .18E-05 | 0.00 | .12E-06 | 145.603 | .26E-05 | 89.718 | .145E+05 | 177.006 | 3398.995 | 2.334 | .02470 |
| 165. | 3485.327 | 1.370 | .18E-05 | 0.00 | .12E-06 | 143.649 | .26E-05 | 89.709 | .145E+05 | 176.830 | 3399.422 | 2.243 | .02465 |
| 166. | 3485.571 | 1.314 | .18E-05 | 0.00 | .11E-06 | 141.795 | .26E-05 | 89.701 | .145E+05 | 176.661 | 3399.853 | 2.144 | .02459 |
| 167. | 3485.814 | 1.253 | .18E-05 | 0.00 | .11E-06 | 140.044 | .26E-05 | 89.696 | .145E+05 | 176.501 | 3400.284 | 2.037 | .02454 |
| 168. | 3486.055 | 1.186 | .18E-05 | 0.00 | .10E-06 | 138.401 | .26E-05 | 89.691 | .145E+05 | 176.350 | 3400.710 | 1.922 | .02448 |
| 169. | 3486.289 | 1.114 | .18E-05 | 0.00 | .97E-07 | 136.871 | .26E-05 | 89.689 | .145E+05 | 176.208 | 3401.126 | 1.799 | .02443 |
| 170. | 3486.515 | 1.036 | .18E-05 | 0.00 | .90E-07 | 135.459 | .26E-05 | 89.687 | .145E+05 | 176.076 | 3401.527 | 1.667 | .02438 |
| 171. | 3486.729 | .953 | .18E-05 | 0.00 | .83E-07 | 134.168 | .26E-05 | 89.687 | .145E+05 | 175.955 | 3401.908 | 1.527 | .02433 |
| 172. | 3486.930 | .864 | .18E-05 | 0.00 | .76E-07 | 133.002 | .26E-05 | 89.687 | .145E+05 | 175.844 | 3402.264 | 1.380 | .02428 |
| 173. | 3487.113 | .769 | .18E-05 | 0.00 | .68E-07 | 131.964 | .26E-05 | 89.688 | .145E+05 | 175.745 | 3402.591 | 1.225 | .02424 |
| 174. | 3487.278 | .670 | .18E-05 | 0.00 | .59E-07 | 131.059 | .26E-05 | 89.690 | .145E+05 | 175.659 | 3402.884 | 1.064 | .02420 |
| 175. | 3487.421 | .566 | .18E-05 | 0.00 | .50E-07 | 130.287 | .26E-05 | 89.691 | .145E+05 | 175.585 | 3403.139 | .897 | .02417 |
| 176. | 3487.541 | .458 | .18E-05 | 0.00 | .41E-07 | 129.653 | .26E-05 | 89.693 | .145E+05 | 175.523 | 3403.353 | .724 | .02414 |
| 177. | 3487.637 | .347 | .18E-05 | 0.00 | .31E-07 | 129.157 | .26E-05 | 89.695 | .145E+05 | 175.475 | 3403.523 | .547 | .02412 |
| 178. | 3487.706 | .233 | .18E-05 | 0.00 | .21E-07 | 128.802 | .26E-05 | 89.696 | .145E+05 | 175.441 | 3403.646 | .367 | .02410 |
| 179. | 3487.748 | .117 | .18E-05 | 0.00 | .10E-07 | 128.589 | .26E-05 | 89.697 | .145E+05 | 175.420 | 3403.720 | .184 | .02409 |
| 180. | 3487.762 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.697 | .145E+05 | 175.413 | 3403.745 | 0.000 | .02409 |

WITH EULER ANGLES 0 37 THETA LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3991.317 | 0.000 | .27E-05 | 0.00 | .28E-06 | 90.000 | .30E-05 | 90.000 | .148E+05 | 90.000 | 3887.021 | 0.000 | .02613 |
| 1. | 3991.200 | -.193 | .27E-05 | 0.00 | .28E-06 | 102.250 | .30E-05 | 89.999 | .148E+05 | 90.211 | 3886.838 | -.308 | .02615 |
| 2. | 3990.844 | -.393 | .27E-05 | 0.00 | .29E-06 | 114.407 | .30E-05 | 89.995 | .148E+05 | 90.436 | 3886.289 | -.620 | .02620 |
| 3. | 3990.240 | -.605 | .27E-05 | 0.00 | .30E-06 | 126.375 | .30E-05 | 89.984 | .149E+05 | 90.689 | 3885.369 | -.936 | .02628 |
| 4. | 3989.367 | -.836 | .27E-05 | 0.00 | .32E-06 | 138.046 | .30E-05 | 89.964 | .149E+05 | 90.985 | 3884.071 | -1.260 | .02639 |
| 5. | 3988.198 | -1.094 | .27E-05 | 0.00 | .34E-06 | 149.310 | .31E-05 | 89.931 | .149E+05 | 91.338 | 3882.384 | -1.594 | .02653 |
| 6. | 3986.695 | -1.387 | .27E-05 | 0.00 | .38E-06 | 160.057 | .31E-05 | 89.881 | .150E+05 | 91.767 | 3880.295 | -1.941 | .02669 |
| 7. | 3984.810 | -1.726 | .27E-05 | 0.00 | .42E-06 | 170.193 | .31E-05 | 89.811 | .150E+05 | 92.288 | 3877.788 | -2.302 | .02686 |
| 8. | 3982.481 | -2.121 | .28E-05 | 0.00 | .47E-06 | 179.644 | .31E-05 | 89.717 | .150E+05 | 92.920 | 3874.846 | -2.680 | .02703 |
| 9. | 3979.635 | -2.583 | .28E-05 | 0.00 | .53E-06 | -171.642 | .31E-05 | 89.595 | .151E+05 | 93.684 | 3871.449 | -3.077 | .02718 |
| 10. | 3976.183 | -3.123 | .28E-05 | 0.00 | .60E-06 | -163.696 | .31E-05 | 89.443 | .151E+05 | 94.599 | 3867.575 | -3.492 | .02731 |
| 11. | 3972.028 | -3.748 | .28E-05 | 0.00 | .69E-06 | -156.532 | .31E-05 | 89.258 | .150E+05 | 95.685 | 3863.203 | -3.927 | .02740 |
| 12. | 3967.065 | -4.460 | .27E-05 | 0.00 | .78E-06 | -150.148 | .31E-05 | 89.039 | .149E+05 | 96.957 | 3858.312 | -4.380 | .02741 |
| 13. | 3961.196 | -5.249 | .27E-05 | 0.00 | .88E-06 | -144.531 | .31E-05 | 88.788 | .148E+05 | 98.422 | 3852.881 | -4.850 | .02734 |
| 14. | 3954.340 | -6.094 | .27E-05 | 0.00 | .98E-06 | -139.649 | .30E-05 | 88.508 | .146E+05 | 100.080 | 3846.895 | -5.334 | .02717 |
| 15. | 3946.451 | -6.961 | .26E-05 | 0.00 | .11E-05 | -135.457 | .30E-05 | 88.207 | .143E+05 | 101.917 | 3840.341 | -5.827 | .02689 |
| 16. | 3937.527 | -7.814 | .26E-05 | 0.00 | .12E-05 | -131.889 | .29E-05 | 87.894 | .140E+05 | 103.910 | 3833.213 | -6.324 | .02649 |
| 17. | 3927.610 | -8.619 | .25E-05 | 0.00 | .13E-05 | -128.866 | .29E-05 | 87.579 | .137E+05 | 106.026 | 3825.515 | -6.816 | .02599 |
| 18. | 3916.778 | -9.350 | .25E-05 | 0.00 | .13E-05 | -126.301 | .28E-05 | 87.273 | .133E+05 | 108.233 | 3817.257 | -7.297 | .02541 |
| 19. | 3905.135 | -9.994 | .24E-05 | 0.00 | .14E-05 | -124.109 | .28E-05 | 86.983 | .130E+05 | 110.500 | 3808.461 | -7.758 | .02476 |
| 20. | 3892.736 | -10.546 | .24E-05 | 0.00 | .14E-05 | -122.212 | .27E-05 | 86.719 | .126E+05 | 112.804 | 3799.159 | -8.190 | .02405 |
| 21. | 3879.677 | -11.007 | .23E-05 | 0.00 | .15E-05 | -120.543 | .27E-05 | 86.484 | .123E+05 | 115.125 | 3789.390 | -8.585 | .02332 |
| 22. | 3866.489 | -11.383 | .22E-05 | 0.00 | .15E-05 | -119.046 | .26E-05 | 86.283 | .120E+05 | 117.452 | 3779.207 | -8.937 | .02257 |
| 23. | 3852.738 | -11.679 | .22E-05 | 0.00 | .15E-05 | -117.676 | .26E-05 | 86.118 | .118E+05 | 119.777 | 3768.666 | -9.239 | .02182 |
| 24. | 3838.720 | -11.902 | .21E-05 | 0.00 | .16E-05 | -116.397 | .26E-05 | 85.992 | .115E+05 | 122.098 | 3757.830 | -9.488 | .02107 |
| 25. | 3824.524 | -12.056 | .21E-05 | 0.00 | .16E-05 | -115.182 | .25E-05 | 85.904 | .113E+05 | 124.413 | 3746.767 | -9.680 | .02033 |
| 26. | 3810.233 | -12.146 | .21E-05 | 0.00 | .16E-05 | -114.010 | .25E-05 | 85.856 | .111E+05 | 126.724 | 3735.546 | -9.813 | .01960 |
| 27. | 3795.922 | -12.177 | .20E-05 | 0.00 | .16E-05 | -112.863 | .25E-05 | 85.847 | .109E+05 | 129.035 | 3724.236 | -9.889 | .01889 |
| 28. | 3781.663 | -12.151 | .20E-05 | 0.00 | .16E-05 | -111.730 | .25E-05 | 85.877 | .107E+05 | 131.349 | 3712.906 | -9.906 | .01818 |
| 29. | 3767.521 | -12.072 | .20E-05 | 0.00 | .16E-05 | -110.600 | .25E-05 | 85.944 | .105E+05 | 133.671 | 3701.625 | -9.866 | .01749 |
| 30. | 3753.557 | -11.941 | .20E-05 | 0.00 | .16E-05 | -109.466 | .25E-05 | 86.048 | .103E+05 | 136.007 | 3690.456 | -9.771 | .01681 |
| 31. | 3739.831 | -11.761 | .20E-05 | 0.00 | .16E-05 | -108.322 | .25E-05 | 86.186 | .101E+05 | 138.360 | 3679.461 | -9.623 | .01614 |
| 32. | 3726.395 | -11.534 | .19E-05 | 0.00 | .16E-05 | -107.165 | .25E-05 | 86.356 | .994E+04 | 140.737 | 3668.698 | -9.425 | .01548 |
| 33. | 3713.303 | -11.262 | .19E-05 | 0.00 | .16E-05 | -105.992 | .25E-05 | 86.561 | .976E+04 | 143.143 | 3658.221 | -9.179 | .01483 |
| 34. | 3700.601 | -10.945 | .19E-05 | 0.00 | .16E-05 | -104.801 | .25E-05 | 86.792 | .958E+04 | 145.584 | 3648.081 | -8.888 | .01419 |
| 35. | 3688.336 | -10.588 | .19E-05 | 0.00 | .16E-05 | -103.593 | .25E-05 | 87.051 | .939E+04 | 148.066 | 3638.322 | -8.556 | .01356 |
| 36. | 3676.549 | -10.190 | .19E-05 | 0.00 | .16E-05 | -102.366 | .25E-05 | 87.334 | .920E+04 | 150.595 | 3628.987 | -8.185 | .01294 |
| 37. | 3665.281 | -9.754 | .19E-05 | 0.00 | .15E-05 | -101.121 | .25E-05 | 87.638 | .901E+04 | 153.177 | 3620.114 | -7.778 | .01232 |
| 38. | 3654.567 | -9.282 | .19E-05 | 0.00 | .15E-05 | -99.861 | .25E-05 | 87.961 | .882E+04 | 155.818 | 3611.737 | -7.339 | .01172 |
| 39. | 3644.441 | -8.778 | .19E-05 | 0.00 | .15E-05 | -98.586 | .25E-05 | 88.300 | .862E+04 | 158.526 | 3603.885 | -6.872 | .01113 |
| 40. | 3634.933 | -8.243 | .19E-05 | 0.00 | .15E-05 | -97.298 | .25E-05 | 88.653 | .842E+04 | 161.306 | 3596.585 | -6.379 | .01055 |
| 41. | 3626.069 | -7.681 | .19E-05 | 0.00 | .15E-05 | -96.001 | .26E-05 | 89.016 | .822E+04 | 164.166 | 3589.856 | -5.866 | .00999 |
| 42. | 3617.870 | -7.095 | .19E-05 | 0.00 | .15E-05 | -94.696 | .26E-05 | 89.386 | .802E+04 | 167.113 | 3583.716 | -5.335 | .00944 |
| 43. | 3610.356 | -6.489 | .19E-05 | 0.00 | .15E-05 | -93.386 | .26E-05 | 89.761 | .781E+04 | 170.155 | 3578.178 | -4.790 | .00891 |
| 44. | 3603.541 | -5.867 | .19E-05 | 0.00 | .14E-05 | -92.075 | .26E-05 | 90.138 | .761E+04 | 173.298 | 3573.251 | -4.237 | .00841 |
| 45. | 3597.433 | -5.233 | .19E-05 | 0.00 | .14E-05 | -90.766 | .26E-05 | 90.515 | .741E+04 | 176.549 | 3568.938 | -3.679 | .00792 |
| 46. | 3592.040 | -4.593 | .19E-05 | 0.00 | .14E-05 | -89.461 | .26E-05 | 90.888 | .721E+04 | 179.916 | 3565.239 | -3.121 | .00746 |
| 47. | 3587.360 | -3.951 | .19E-05 | 0.00 | .14E-05 | -88.164 | .27E-05 | 91.256 | .702E+04 | -176.596 | 3562.149 | -2.568 | .00703 |
| 48. | 3583.390 | -3.311 | .19E-05 | 0.00 | .13E-05 | -86.878 | .27E-05 | 91.617 | .684E+04 | -172.982 | 3559.659 | -2.022 | .00662 |
| 49. | 3580.120 | -2.679 | .19E-05 | 0.00 | .13E-05 | -85.606 | .27E-05 | 91.968 | .666E+04 | -169.240 | 3557.756 | -1.490 | .00625 |

WITH EULER ANGLES 0 37 THETA LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3577.538 | -2.059 | .19E-05 | 0.00 | .13E-05 | -84.350 | .27E-05 | 92.308 | .649E+04 | -165.369 | 3556.423 | -.974 | .00590 |
| 51. | 3575.624 | -1.456 | .19E-05 | 0.00 | .13E-05 | -83.114 | .26E-05 | 92.636 | .633E+04 | -161.371 | 3555.639 | -.478 | .00559 |
| 52. | 3574.357 | -.874 | .19E-05 | 0.00 | .12E-05 | -81.899 | .26E-05 | 92.950 | .619E+04 | -157.253 | 3555.379 | -.006 | .00531 |
| 53. | 3573.711 | -.317 | .20E-05 | 0.00 | .12E-05 | -80.708 | .26E-05 | 93.250 | .606E+04 | -153.025 | 3555.616 | .439 | .00506 |
| 54. | 3573.655 | .211 | .20E-05 | 0.00 | .12E-05 | -79.543 | .26E-05 | 93.534 | .595E+04 | -148.702 | 3556.321 | .856 | .00485 |
| 55. | 3574.159 | .708 | .20E-05 | 0.00 | .11E-05 | -78.405 | .25E-05 | 93.801 | .586E+04 | -144.304 | 3557.460 | 1.242 | .00467 |
| 56. | 3575.185 | 1.171 | .20E-05 | 0.00 | .11E-05 | -77.294 | .25E-05 | 94.053 | .578E+04 | -139.856 | 3559.001 | 1.596 | .00453 |
| 57. | 3576.697 | 1.599 | .20E-05 | 0.00 | .11E-05 | -76.213 | .25E-05 | 94.288 | .572E+04 | -135.385 | 3560.909 | 1.917 | .00441 |
| 58. | 3578.656 | 1.989 | .20E-05 | 0.00 | .10E-05 | -75.161 | .25E-05 | 94.507 | .569E+04 | -130.924 | 3563.149 | 2.204 | .00433 |
| 59. | 3581.022 | 2.342 | .20E-05 | 0.00 | .10E-05 | -74.138 | .30E-05 | 94.709 | .567E+04 | -126.505 | 3565.665 | 2.459 | .00428 |
| 60. | 3583.755 | 2.657 | .20E-05 | 0.00 | .97E-06 | -73.144 | .30E-05 | 94.895 | .567E+04 | -122.161 | 3568.483 | 2.681 | .00426 |
| 61. | 3586.815 | 2.934 | .20E-05 | 0.00 | .94E-06 | -72.179 | .30E-05 | 95.066 | .570E+04 | -117.923 | 3571.507 | 2.872 | .00427 |
| 62. | 3590.160 | 3.174 | .20E-05 | 0.00 | .90E-06 | -71.242 | .30E-05 | 95.222 | .573E+04 | -113.819 | 3574.726 | 3.032 | .00430 |
| 63. | 3593.752 | 3.378 | .21E-05 | 0.00 | .87E-06 | -70.331 | .30E-05 | 95.363 | .579E+04 | -109.874 | 3578.107 | 3.164 | .00435 |
| 64. | 3597.552 | 3.546 | .21E-05 | 0.00 | .83E-06 | -69.445 | .30E-05 | 95.490 | .586E+04 | -106.107 | 3581.620 | 3.268 | .00443 |
| 65. | 3601.522 | 3.680 | .21E-05 | 0.00 | .80E-06 | -68.583 | .31E-05 | 95.605 | .594E+04 | -102.531 | 3585.235 | 3.346 | .00452 |
| 66. | 3605.626 | 3.782 | .21E-05 | 0.00 | .76E-06 | -67.743 | .31E-05 | 95.707 | .603E+04 | -99.157 | 3588.927 | 3.400 | .00463 |
| 67. | 3609.831 | 3.853 | .21E-05 | 0.00 | .73E-06 | -66.923 | .31E-05 | 95.798 | .613E+04 | -95.990 | 3592.670 | 3.431 | .00475 |
| 68. | 3614.102 | 3.895 | .21E-05 | 0.00 | .69E-06 | -66.121 | .31E-05 | 95.878 | .624E+04 | -93.031 | 3596.439 | 3.442 | .00489 |
| 69. | 3618.409 | 3.908 | .21E-05 | 0.00 | .65E-06 | -65.336 | .31E-05 | 95.947 | .635E+04 | -90.279 | 3600.213 | 3.433 | .00503 |
| 70. | 3622.722 | 3.896 | .21E-05 | 0.00 | .62E-06 | -64.567 | .31E-05 | 96.008 | .647E+04 | -87.730 | 3603.971 | 3.406 | .00518 |
| 71. | 3627.013 | 3.860 | .21E-05 | 0.00 | .59E-06 | -63.811 | .31E-05 | 96.060 | .658E+04 | -85.378 | 3607.693 | 3.361 | .00533 |
| 72. | 3631.255 | 3.800 | .21E-05 | 0.00 | .55E-06 | -63.067 | .31E-05 | 96.105 | .670E+04 | -83.216 | 3611.361 | 3.301 | .00548 |
| 73. | 3635.424 | 3.719 | .21E-05 | 0.00 | .52E-06 | -62.336 | .31E-05 | 96.142 | .682E+04 | -81.236 | 3614.958 | 3.225 | .00563 |
| 74. | 3639.495 | 3.617 | .21E-05 | 0.00 | .48E-06 | -61.617 | .31E-05 | 96.173 | .693E+04 | -79.430 | 3618.467 | 3.135 | .00578 |
| 75. | 3643.446 | 3.495 | .21E-05 | 0.00 | .45E-06 | -60.910 | .31E-05 | 96.198 | .704E+04 | -77.790 | 3621.871 | 3.030 | .00592 |
| 76. | 3647.256 | 3.356 | .21E-05 | 0.00 | .42E-06 | -60.216 | .31E-05 | 96.219 | .715E+04 | -76.306 | 3625.154 | 2.912 | .00606 |
| 77. | 3650.904 | 3.199 | .21E-05 | 0.00 | .39E-06 | -59.538 | .31E-05 | 96.235 | .725E+04 | -74.969 | 3628.302 | 2.780 | .00619 |
| 78. | 3654.372 | 3.025 | .21E-05 | 0.00 | .36E-06 | -58.879 | .31E-05 | 96.247 | .735E+04 | -73.772 | 3631.299 | 2.635 | .00631 |
| 79. | 3657.640 | 2.836 | .21E-05 | 0.00 | .33E-06 | -58.241 | .32E-05 | 96.256 | .744E+04 | -72.707 | 3634.130 | 2.476 | .00643 |
| 80. | 3660.691 | 2.632 | .21E-05 | 0.00 | .29E-06 | -57.629 | .32E-05 | 96.263 | .752E+04 | -71.765 | 3636.779 | 2.304 | .00653 |
| 81. | 3663.509 | 2.414 | .21E-05 | 0.00 | .27E-06 | -57.048 | .32E-05 | 96.267 | .760E+04 | -70.939 | 3639.233 | 2.119 | .00663 |
| 82. | 3666.078 | 2.183 | .21E-05 | 0.00 | .23E-06 | -56.504 | .32E-05 | 96.269 | .767E+04 | -70.221 | 3641.476 | 1.922 | .00671 |
| 83. | 3668.382 | 1.940 | .21E-05 | 0.00 | .20E-06 | -56.004 | .32E-05 | 96.271 | .773E+04 | -69.606 | 3643.494 | 1.713 | .00678 |
| 84. | 3670.410 | 1.685 | .21E-05 | 0.00 | .18E-06 | -55.553 | .32E-05 | 96.271 | .778E+04 | -69.086 | 3645.274 | 1.492 | .00685 |
| 85. | 3672.148 | 1.421 | .21E-05 | 0.00 | .15E-06 | -55.158 | .32E-05 | 96.271 | .783E+04 | -68.657 | 3646.804 | 1.261 | .00690 |
| 86. | 3673.585 | 1.147 | .21E-05 | 0.00 | .12E-06 | -54.825 | .32E-05 | 96.270 | .787E+04 | -68.312 | 3648.073 | 1.021 | .00694 |
| 87. | 3674.713 | .867 | .21E-05 | 0.00 | .87E-07 | -54.559 | .32E-05 | 96.269 | .789E+04 | -68.049 | 3649.070 | .773 | .00698 |
| 88. | 3675.524 | .581 | .21E-05 | 0.00 | .58E-07 | -54.366 | .32E-05 | 96.268 | .792E+04 | -67.864 | 3649.789 | .519 | .00700 |
| 89. | 3676.013 | .292 | .21E-05 | 0.00 | .29E-07 | -54.249 | .32E-05 | 96.268 | .793E+04 | -67.754 | 3650.222 | .260 | .00702 |
| 90. | 3676.177 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.268 | .793E+04 | -67.717 | 3650.367 | 0.000 | .00702 |
| 91. | 3676.013 | -.292 | .21E-05 | 0.00 | .29E-07 | 125.751 | .32E-05 | 96.268 | .793E+04 | -67.754 | 3650.222 | -.260 | .00702 |
| 92. | 3675.524 | -.581 | .21E-05 | 0.00 | .58E-07 | 125.634 | .32E-05 | 96.268 | .792E+04 | -67.864 | 3649.789 | -.519 | .00700 |
| 93. | 3674.713 | -.867 | .21E-05 | 0.00 | .87E-07 | 125.441 | .32E-05 | 96.269 | .789E+04 | -68.049 | 3649.070 | -.773 | .00698 |
| 94. | 3673.585 | -1.147 | .21E-05 | 0.00 | .12E-06 | 125.175 | .32E-05 | 96.270 | .787E+04 | -68.312 | 3648.073 | -1.021 | .00694 |
| 95. | 3672.148 | -1.421 | .21E-05 | 0.00 | .15E-06 | 124.842 | .32E-05 | 96.271 | .783E+04 | -68.657 | 3646.804 | -1.261 | .00690 |
| 96. | 3670.410 | -1.685 | .21E-05 | 0.00 | .18E-06 | 124.447 | .32E-05 | 96.271 | .778E+04 | -69.086 | 3645.274 | -1.492 | .00685 |
| 97. | 3668.382 | -1.940 | .21E-05 | 0.00 | .20E-06 | 123.996 | .32E-05 | 96.271 | .773E+04 | -69.606 | 3643.494 | -1.713 | .00678 |
| 98. | 3666.078 | -2.183 | .21E-05 | 0.00 | .23E-06 | 123.496 | .32E-05 | 96.269 | .767E+04 | -70.221 | 3641.476 | -1.922 | .00671 |
| 99. | 3663.509 | -2.414 | .21E-05 | 0.00 | .27E-06 | 122.952 | .32E-05 | 96.267 | .760E+04 | -70.939 | 3639.233 | -2.119 | .00663 |

WITH EULER ANGLES 0 37 THETA LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3660.691 | -2.632 | .21E-05 | 0.00 | .29E-06 | 122.371 | .32E-05 | 96.263 | .752E+04 | -71.765 | 3636.779 | -2.304 | .00653 |
| 101. | 3657.640 | -2.836 | .21E-05 | 0.00 | .33E-06 | 121.759 | .32E-05 | 96.256 | .744E+04 | -72.707 | 3634.130 | -2.476 | .00643 |
| 102. | 3654.372 | -3.025 | .21E-05 | 0.00 | .36E-06 | 121.121 | .31E-05 | 96.247 | .735E+04 | -73.772 | 3631.299 | -2.635 | .00631 |
| 103. | 3650.904 | -3.199 | .21E-05 | 0.00 | .39E-06 | 120.462 | .31E-05 | 96.235 | .725E+04 | -74.969 | 3628.302 | -2.780 | .00619 |
| 104. | 3647.256 | -3.356 | .21E-05 | 0.00 | .42E-06 | 119.784 | .31E-05 | 96.219 | .715E+04 | -76.306 | 3625.154 | -2.912 | .00606 |
| 105. | 3643.446 | -3.495 | .21E-05 | 0.00 | .45E-06 | 119.090 | .31E-05 | 96.198 | .704E+04 | -77.790 | 3621.871 | -3.030 | .00592 |
| 106. | 3639.495 | -3.617 | .21E-05 | 0.00 | .48E-06 | 118.383 | .31E-05 | 96.173 | .693E+04 | -79.430 | 3618.467 | -3.135 | .00578 |
| 107. | 3635.424 | -3.719 | .21E-05 | 0.00 | .52E-06 | 117.664 | .31E-05 | 96.142 | .682E+04 | -81.236 | 3614.958 | -3.225 | .00563 |
| 108. | 3631.255 | -3.800 | .21E-05 | 0.00 | .55E-06 | 116.933 | .31E-05 | 96.105 | .670E+04 | -83.216 | 3611.361 | -3.301 | .00548 |
| 109. | 3627.013 | -3.860 | .21E-05 | 0.00 | .59E-06 | 116.189 | .31E-05 | 96.060 | .658E+04 | -85.378 | 3607.693 | -3.361 | .00533 |
| 110. | 3622.722 | -3.896 | .21E-05 | 0.00 | .62E-06 | 115.433 | .31E-05 | 96.008 | .647E+04 | -87.730 | 3603.971 | -3.406 | .00518 |
| 111. | 3618.409 | -3.908 | .21E-05 | 0.00 | .65E-06 | 114.664 | .31E-05 | 95.947 | .635E+04 | -90.279 | 3600.213 | -3.433 | .00503 |
| 112. | 3614.102 | -3.895 | .21E-05 | 0.00 | .69E-06 | 113.879 | .31E-05 | 95.876 | .624E+04 | -93.031 | 3596.439 | -3.442 | .00489 |
| 113. | 3609.831 | -3.853 | .21E-05 | 0.00 | .73E-06 | 113.077 | .31E-05 | 95.798 | .613E+04 | -95.990 | 3592.670 | -3.431 | .00475 |
| 114. | 3605.626 | -3.782 | .21E-05 | 0.00 | .76E-06 | 112.257 | .31E-05 | 95.707 | .603E+04 | -99.157 | 3588.927 | -3.400 | .00463 |
| 115. | 3601.522 | -3.680 | .21E-05 | 0.00 | .80E-06 | 111.417 | .31E-05 | 95.605 | .594E+04 | -102.531 | 3585.235 | -3.346 | .00452 |
| 116. | 3597.552 | -3.546 | .21E-05 | 0.00 | .83E-06 | 110.555 | .30E-05 | 95.490 | .586E+04 | -106.107 | 3581.620 | -3.268 | .00443 |
| 117. | 3593.752 | -3.378 | .21E-05 | 0.00 | .87E-06 | 109.669 | .30E-05 | 95.363 | .579E+04 | -109.874 | 3578.107 | -3.164 | .00435 |
| 118. | 3590.160 | -3.174 | .20E-05 | 0.00 | .90E-06 | 108.758 | .30E-05 | 95.222 | .573E+04 | -113.819 | 3574.726 | -3.032 | .00430 |
| 119. | 3586.815 | -2.934 | .20E-05 | 0.00 | .94E-06 | 107.821 | .30E-05 | 95.066 | .570E+04 | -117.923 | 3571.507 | -2.872 | .00427 |
| 120. | 3583.755 | -2.657 | .20E-05 | 0.00 | .97E-06 | 106.856 | .30E-05 | 94.895 | .567E+04 | -122.161 | 3568.483 | -2.681 | .00426 |
| 121. | 3581.022 | -2.342 | .20E-05 | 0.00 | .10E-05 | 105.862 | .30E-05 | 94.709 | .567E+04 | -126.505 | 3565.685 | -2.459 | .00428 |
| 122. | 3578.656 | -1.989 | .20E-05 | 0.00 | .10E-05 | 104.839 | .29E-05 | 94.507 | .569E+04 | -130.924 | 3563.149 | -2.204 | .00433 |
| 123. | 3576.697 | -1.599 | .20E-05 | 0.00 | .11E-05 | 103.787 | .29E-05 | 94.288 | .572E+04 | -135.385 | 3560.909 | -1.917 | .00441 |
| 124. | 3575.185 | -1.171 | .20E-05 | 0.00 | .11E-05 | 102.706 | .29E-05 | 94.053 | .578E+04 | -139.856 | 3559.001 | -1.596 | .00453 |
| 125. | 3574.159 | -.708 | .20E-05 | 0.00 | .11E-05 | 101.595 | .29E-05 | 93.801 | .586E+04 | -144.304 | 3557.460 | -1.242 | .00467 |
| 126. | 3573.655 | -.211 | .20E-05 | 0.00 | .12E-05 | 100.457 | .28E-05 | 93.534 | .595E+04 | -148.702 | 3556.321 | -.856 | .00485 |
| 127. | 3573.711 | .317 | .20E-05 | 0.00 | .12E-05 | 99.292 | .28E-05 | 93.250 | .606E+04 | -153.025 | 3555.616 | -.439 | .00506 |
| 128. | 3574.357 | .874 | .19E-05 | 0.00 | .12E-05 | 98.101 | .28E-05 | 92.950 | .619E+04 | -157.253 | 3555.379 | .006 | .00531 |
| 129. | 3575.624 | 1.456 | .19E-05 | 0.00 | .13E-05 | 96.886 | .28E-05 | 92.636 | .633E+04 | -161.371 | 3555.639 | .478 | .00559 |
| 130. | 3577.538 | 2.059 | .19E-05 | 0.00 | .13E-05 | 95.650 | .27E-05 | 92.308 | .649E+04 | -165.369 | 3556.423 | .974 | .00590 |
| 131. | 3580.120 | 2.679 | .19E-05 | 0.00 | .13E-05 | 94.394 | .27E-05 | 91.968 | .666E+04 | -169.240 | 3557.756 | 1.490 | .00625 |
| 132. | 3583.390 | 3.311 | .19E-05 | 0.00 | .13E-05 | 93.122 | .27E-05 | 91.617 | .684E+04 | -172.982 | 3559.659 | 2.022 | .00662 |
| 133. | 3587.360 | 3.951 | .19E-05 | 0.00 | .14E-05 | 91.836 | .27E-05 | 91.256 | .702E+04 | -176.596 | 3562.149 | 2.568 | .00703 |
| 134. | 3592.040 | 4.593 | .19E-05 | 0.00 | .14E-05 | 90.539 | .26E-05 | 90.888 | .721E+04 | 179.916 | 3565.239 | 3.121 | .00746 |
| 135. | 3597.433 | 5.233 | .19E-05 | 0.00 | .14E-05 | 89.234 | .26E-05 | 90.515 | .741E+04 | 176.549 | 3568.938 | 3.679 | .00792 |
| 136. | 3603.541 | 5.867 | .19E-05 | 0.00 | .14E-05 | 87.925 | .26E-05 | 90.138 | .761E+04 | 173.298 | 3573.251 | 4.237 | .00841 |
| 137. | 3610.356 | 6.489 | .19E-05 | 0.00 | .15E-05 | 86.614 | .26E-05 | 89.761 | .781E+04 | 170.155 | 3578.178 | 4.790 | .00891 |
| 138. | 3617.870 | 7.095 | .19E-05 | 0.00 | .15E-05 | 85.304 | .26E-05 | 89.386 | .802E+04 | 167.113 | 3583.716 | 5.335 | .00944 |
| 139. | 3626.069 | 7.681 | .19E-05 | 0.00 | .15E-05 | 83.999 | .26E-05 | 89.016 | .822E+04 | 164.166 | 3589.856 | 5.866 | .00999 |
| 140. | 3634.933 | 8.243 | .19E-05 | 0.00 | .15E-05 | 82.702 | .25E-05 | 88.653 | .842E+04 | 161.306 | 3596.585 | 6.379 | .01055 |
| 141. | 3644.441 | 8.778 | .19E-05 | 0.00 | .15E-05 | 81.414 | .25E-05 | 88.300 | .862E+04 | 158.526 | 3603.885 | 6.872 | .01113 |
| 142. | 3654.567 | 9.282 | .19E-05 | 0.00 | .15E-05 | 80.139 | .25E-05 | 87.961 | .882E+04 | 155.818 | 3611.737 | 7.339 | .01172 |
| 143. | 3665.261 | 9.754 | .19E-05 | 0.00 | .15E-05 | 78.879 | .25E-05 | 87.638 | .901E+04 | 153.177 | 3620.114 | 7.778 | .01232 |
| 144. | 3676.549 | 10.190 | .19E-05 | 0.00 | .16E-05 | 77.634 | .25E-05 | 87.334 | .920E+04 | 150.595 | 3628.987 | 8.185 | .01294 |
| 145. | 3688.336 | 10.588 | .19E-05 | 0.00 | .16E-05 | 76.407 | .25E-05 | 87.051 | .939E+04 | 148.066 | 3638.322 | 8.556 | .01356 |
| 146. | 3700.601 | 10.945 | .19E-05 | 0.00 | .16E-05 | 75.199 | .25E-05 | 86.792 | .958E+04 | 145.584 | 3648.081 | 8.888 | .01419 |
| 147. | 3713.303 | 11.262 | .19E-05 | 0.00 | .16E-05 | 74.008 | .25E-05 | 86.561 | .976E+04 | 143.143 | 3658.221 | 9.179 | .01483 |
| 148. | 3726.395 | 11.534 | .19E-05 | 0.00 | .16E-05 | 72.835 | .25E-05 | 86.358 | .994E+04 | 140.737 | 3668.698 | 9.425 | .01548 |
| 149. | 3739.831 | 11.761 | .20E-05 | 0.00 | .16E-05 | 71.678 | .25E-05 | 86.186 | .101E+05 | 138.360 | 3679.461 | 9.623 | .01614 |

WITH EULER ANGLES 0 37 THETA LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3753.557 | 11.941 | .20E-05 | 0.00 | .16E-05 | 70.534 | .25E-05 | 86.048 | .103E+05 | 136.047 | 3690.456 | 9.771 | .01681 |
| 151. | 3767.521 | 12.072 | .20E-05 | 0.00 | .16E-05 | 69.400 | .25E-05 | 85.944 | .105E+05 | 133.671 | 3701.625 | 9.866 | .01749 |
| 152. | 3781.663 | 12.151 | .20E-05 | 0.00 | .16E-05 | 68.270 | .25E-05 | 85.877 | .107E+05 | 131.349 | 3712.906 | 9.906 | .01818 |
| 153. | 3795.922 | 12.177 | .20E-05 | 0.00 | .16E-05 | 67.137 | .25E-05 | 85.847 | .109E+05 | 129.035 | 3724.236 | 9.889 | .01889 |
| 154. | 3810.233 | 12.146 | .21E-05 | 0.00 | .16E-05 | 65.990 | .25E-05 | 85.856 | .111E+05 | 126.724 | 3735.546 | 9.813 | .01960 |
| 155. | 3824.524 | 12.056 | .21E-05 | 0.00 | .16E-05 | 64.818 | .25E-05 | 85.904 | .113E+05 | 124.413 | 3746.767 | 9.680 | .02033 |
| 156. | 3838.720 | 11.902 | .21E-05 | 0.00 | .16E-05 | 63.603 | .26E-05 | 85.992 | .115E+05 | 122.098 | 3757.830 | 9.488 | .02107 |
| 157. | 3852.738 | 11.679 | .22E-05 | 0.00 | .15E-05 | 62.324 | .26E-05 | 86.118 | .118E+05 | 119.777 | 3768.666 | 9.239 | .02182 |
| 158. | 3866.489 | 11.383 | .22E-05 | 0.00 | .15E-05 | 60.954 | .26E-05 | 86.283 | .120E+05 | 117.452 | 3779.207 | 8.937 | .02257 |
| 159. | 3879.877 | 11.007 | .23E-05 | 0.00 | .15E-05 | 59.457 | .27E-05 | 86.484 | .123E+05 | 115.125 | 3789.390 | 8.585 | .02332 |
| 160. | 3892.796 | 10.546 | .24E-05 | 0.00 | .14E-05 | 57.788 | .27E-05 | 86.719 | .126E+05 | 112.804 | 3799.159 | 8.190 | .02405 |
| 161. | 3905.135 | 9.994 | .24E-05 | 0.00 | .14E-05 | 55.891 | .28E-05 | 86.983 | .130E+05 | 110.500 | 3808.461 | 7.758 | .02476 |
| 162. | 3916.778 | 9.350 | .25E-05 | 0.00 | .13E-05 | 53.699 | .28E-05 | 87.273 | .133E+05 | 108.233 | 3817.257 | 7.297 | .02541 |
| 163. | 3927.610 | 8.619 | .25E-05 | 0.00 | .13E-05 | 51.134 | .29E-05 | 87.579 | .137E+05 | 106.026 | 3825.515 | 6.816 | .02599 |
| 164. | 3937.527 | 7.814 | .26E-05 | 0.00 | .12E-05 | 48.111 | .29E-05 | 87.894 | .140E+05 | 103.910 | 3833.213 | 6.324 | .02649 |
| 165. | 3946.451 | 6.961 | .26E-05 | 0.00 | .11E-05 | 44.543 | .30E-05 | 88.207 | .143E+05 | 101.917 | 3840.341 | 5.827 | .02689 |
| 166. | 3954.340 | 6.094 | .27E-05 | 0.00 | .98E-06 | 40.351 | .30E-05 | 88.508 | .146E+05 | 100.060 | 3846.895 | 5.334 | .02717 |
| 167. | 3961.196 | 5.249 | .27E-05 | 0.00 | .88E-06 | 35.469 | .31E-05 | 88.788 | .148E+05 | 98.422 | 3852.881 | 4.850 | .02734 |
| 168. | 3967.065 | 4.460 | .27E-05 | 0.00 | .78E-06 | 29.852 | .31E-05 | 89.039 | .149E+05 | 96.957 | 3858.312 | 4.380 | .02741 |
| 169. | 3972.028 | 3.748 | .28E-05 | 0.00 | .69E-06 | 23.468 | .31E-05 | 89.256 | .150E+05 | 95.665 | 3863.203 | 3.927 | .02740 |
| 170. | 3976.183 | 3.123 | .28E-05 | 0.00 | .60E-06 | 16.304 | .31E-05 | 89.443 | .151E+05 | 94.599 | 3867.575 | 3.492 | .02731 |
| 171. | 3979.635 | 2.583 | .28E-05 | 0.00 | .53E-06 | 8.358 | .31E-05 | 89.595 | .151E+05 | 93.664 | 3871.449 | 3.077 | .02718 |
| 172. | 3982.481 | 2.121 | .28E-05 | 0.00 | .47E-06 | -.356 | .31E-05 | 89.717 | .150E+05 | 92.920 | 3874.846 | 2.680 | .02703 |
| 173. | 3984.810 | 1.726 | .27E-05 | 0.00 | .42E-06 | -9.807 | .31E-05 | 89.811 | .150E+05 | 92.268 | 3877.788 | 2.302 | .02686 |
| 174. | 3986.695 | 1.387 | .27E-05 | 0.00 | .38E-06 | -19.943 | .31E-05 | 89.881 | .150E+05 | 91.767 | 3880.295 | 1.941 | .02669 |
| 175. | 3988.198 | 1.094 | .27E-05 | 0.00 | .34E-06 | -30.690 | .31E-05 | 89.931 | .149E+05 | 91.338 | 3882.384 | 1.594 | .02653 |
| 176. | 3989.367 | .836 | .27E-05 | 0.00 | .32E-06 | -41.954 | .30E-05 | 89.964 | .149E+05 | 90.985 | 3884.071 | 1.260 | .02639 |
| 177. | 3990.240 | .605 | .27E-05 | 0.00 | .30E-06 | -53.625 | .30E-05 | 89.984 | .149E+05 | 90.689 | 3885.369 | .936 | .02628 |
| 178. | 3990.844 | .393 | .27E-05 | 0.00 | .29E-06 | -65.593 | .30E-05 | 89.995 | .148E+05 | 90.436 | 3886.289 | .620 | .02620 |
| 179. | 3991.200 | .193 | .27E-05 | 0.00 | .28E-06 | -77.750 | .30E-05 | 89.999 | .148E+05 | 90.211 | 3886.838 | .308 | .02615 |
| 180. | 3991.317 | 0.000 | .27E-05 | 0.00 | .28E-06 | -90.000 | .30E-05 | 90.000 | .148E+05 | 90.000 | 3887.021 | 0.000 | .02613 |

EULER ANGLES 90 90 THETA WITH ROT CONS 0 41.5 0 LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3644.577 | -7.232 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .242E+04 | 0.000 | 3641.291 | -6.802 | .00090 |
| 1. | 3636.509 | -7.237 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .225E+04 | 0.000 | 3633.706 | -6.821 | .00077 |
| 2. | 3628.464 | -7.224 | .24E-05 | 0.00 | .13E-05 | 180.000 | .32E-05 | 90.000 | .207E+04 | 0.000 | 3626.125 | -6.824 | .00064 |
| 3. | 3620.461 | -7.192 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .187E+04 | 0.000 | 3618.565 | -6.813 | .00052 |
| 4. | 3612.522 | -7.142 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .166E+04 | 0.000 | 3611.040 | -6.789 | .00041 |
| 5. | 3604.667 | -7.074 | .24E-05 | 0.00 | .13E-05 | -180.000 | .32E-05 | 90.000 | .144E+04 | 0.000 | 3603.564 | -6.753 | .00031 |
| 6. | 3596.914 | -6.988 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .120E+04 | 0.000 | 3596.149 | -6.707 | .00021 |
| 7. | 3589.283 | -6.884 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .954E+03 | 0.000 | 3588.807 | -6.651 | .00013 |
| 8. | 3581.793 | -6.763 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .690E+03 | 0.000 | 3581.546 | -6.586 | .00007 |
| 9. | 3574.463 | -6.623 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .412E+03 | 0.000 | 3574.376 | -6.513 | .00002 |
| 10. | 3567.311 | -6.467 | .24E-05 | 0.00 | .14E-05 | -180.000 | .32E-05 | 90.000 | .120E+03 | 0.000 | 3567.304 | -6.433 | 0.00000 |
| 11. | 3560.354 | -6.294 | .24E-05 | 0.00 | .14E-05 | 180.000 | .31E-05 | 90.000 | .184E+03 | -180.000 | 3560.337 | -6.347 | 0.00000 |
| 12. | 3553.610 | -6.103 | .24E-05 | 0.00 | .14E-05 | 180.000 | .31E-05 | 90.000 | .503E+03 | -180.000 | 3553.482 | -6.255 | .00004 |
| 13. | 3547.096 | -5.897 | .23E-05 | 0.00 | .14E-05 | -180.000 | .31E-05 | 90.000 | .833E+03 | 180.000 | 3546.743 | -6.158 | .00010 |
| 14. | 3540.826 | -5.675 | .23E-05 | 0.00 | .14E-05 | -180.000 | .31E-05 | 90.000 | .118E+04 | 180.000 | 3540.126 | -6.056 | .00020 |
| 15. | 3534.818 | -5.438 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .153E+04 | -180.000 | 3533.635 | -5.950 | .00033 |
| 16. | 3529.084 | -5.187 | .23E-05 | 0.00 | .15E-05 | 180.000 | .31E-05 | 90.000 | .190E+04 | -180.000 | 3527.272 | -5.841 | .00051 |
| 17. | 3523.638 | -4.923 | .23E-05 | 0.00 | .15E-05 | -180.000 | .31E-05 | 90.000 | .228E+04 | 180.000 | 3521.041 | -5.729 | .00074 |
| 18. | 3518.493 | -4.647 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .266E+04 | 180.000 | 3514.943 | -5.615 | .00101 |
| 19. | 3513.659 | -4.359 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .306E+04 | 180.000 | 3508.979 | -5.500 | .00133 |
| 20. | 3509.146 | -4.062 | .23E-05 | 0.00 | .15E-05 | -180.000 | .30E-05 | 90.000 | .347E+04 | -180.000 | 3503.150 | -5.384 | .00171 |
| 21. | 3504.963 | -3.757 | .22E-05 | 0.00 | .15E-05 | 180.000 | .30E-05 | 90.000 | .388E+04 | -180.000 | 3497.455 | -5.267 | .00214 |
| 22. | 3501.115 | -3.445 | .22E-05 | 0.00 | .15E-05 | 180.000 | .30E-05 | 90.000 | .430E+04 | 180.000 | 3491.894 | -5.152 | .00263 |
| 23. | 3497.608 | -3.126 | .22E-05 | 0.00 | .15E-05 | 180.000 | .29E-05 | 90.000 | .473E+04 | -180.000 | 3486.465 | -5.037 | .00319 |
| 24. | 3494.444 | -2.808 | .22E-05 | 0.00 | .15E-05 | 180.000 | .29E-05 | 90.000 | .516E+04 | -180.000 | 3481.165 | -4.925 | .00380 |
| 25. | 3491.626 | -2.487 | .22E-05 | 0.00 | .15E-05 | 180.000 | .29E-05 | 90.000 | .560E+04 | -180.000 | 3475.994 | -4.814 | .00448 |
| 26. | 3489.151 | -2.167 | .21E-05 | 0.00 | .15E-05 | 180.000 | .28E-05 | 90.000 | .604E+04 | -180.000 | 3470.947 | -4.704 | .00522 |
| 27. | 3487.016 | -1.850 | .21E-05 | 0.00 | .15E-05 | 180.000 | .28E-05 | 90.000 | .649E+04 | 180.000 | 3466.022 | -4.597 | .00602 |
| 28. | 3485.216 | -1.540 | .21E-05 | 0.00 | .15E-05 | 180.000 | .28E-05 | 90.000 | .694E+04 | -180.000 | 3461.219 | -4.490 | .00689 |
| 29. | 3483.743 | -1.237 | .21E-05 | 0.00 | .14E-05 | 180.000 | .28E-05 | 90.000 | .739E+04 | -180.000 | 3456.535 | -4.382 | .00781 |
| 30. | 3482.586 | -.947 | .20E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .785E+04 | 180.000 | 3451.973 | -4.272 | .00879 |
| 31. | 3481.730 | -.670 | .20E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .830E+04 | -180.000 | 3447.537 | -4.154 | .00982 |
| 32. | 3481.158 | -.412 | .20E-05 | 0.00 | .14E-05 | 180.000 | .27E-05 | 90.000 | .876E+04 | -180.000 | 3443.235 | -4.027 | .01089 |
| 33. | 3480.849 | -.175 | .20E-05 | 0.00 | .13E-05 | 180.000 | .26E-05 | 90.000 | .921E+04 | -180.000 | 3439.080 | -3.885 | .01200 |
| 34. | 3480.778 | .036 | .19E-05 | 0.00 | .13E-05 | 180.000 | .26E-05 | 90.000 | .967E+04 | -180.000 | 3435.090 | -3.723 | .01313 |
| 35. | 3480.916 | .217 | .19E-05 | 0.00 | .12E-05 | 180.000 | .26E-05 | 90.000 | .101E+05 | 180.000 | 3431.285 | -3.540 | .01426 |
| 36. | 3481.227 | .364 | .19E-05 | 0.00 | .11E-05 | 180.000 | .25E-05 | 90.000 | .106E+05 | -180.000 | 3427.689 | -3.334 | .01538 |
| 37. | 3481.675 | .473 | .18E-05 | 0.00 | .10E-05 | 180.000 | .25E-05 | 90.000 | .110E+05 | 180.000 | 3424.322 | -3.108 | .01647 |
| 38. | 3482.217 | .543 | .18E-05 | 0.00 | .93E-06 | -180.000 | .25E-05 | 90.000 | .115E+05 | 180.000 | 3421.203 | -2.870 | .01752 |
| 39. | 3482.815 | .578 | .18E-05 | 0.00 | .81E-06 | 180.000 | .25E-05 | 90.000 | .119E+05 | -180.000 | 3418.335 | -2.633 | .01851 |
| 40. | 3483.434 | .585 | .18E-05 | 0.00 | .68E-06 | 180.000 | .25E-05 | 90.000 | .123E+05 | 180.000 | 3415.709 | -2.414 | .01944 |
| 41. | 3484.049 | .571 | .17E-05 | 0.00 | .54E-06 | 180.000 | .25E-05 | 90.000 | .126E+05 | -180.000 | 3413.295 | -2.232 | .02031 |
| 42. | 3484.638 | .536 | .17E-05 | 0.00 | .40E-06 | 180.000 | .25E-05 | 90.000 | .130E+05 | 180.000 | 3411.046 | -2.105 | .02112 |
| 43. | 3485.175 | .465 | .17E-05 | 0.00 | .27E-06 | -180.000 | .25E-05 | 90.000 | .133E+05 | -180.000 | 3408.894 | -2.049 | .02189 |
| 44. | 3485.601 | .324 | .17E-05 | 0.00 | .16E-06 | -180.000 | .25E-05 | 90.000 | .135E+05 | -180.000 | 3406.762 | -2.069 | .02262 |
| 45. | 3485.822 | .071 | .17E-05 | 0.00 | .72E-07 | -180.000 | .25E-05 | 90.000 | .138E+05 | -180.000 | 3404.571 | -2.165 | .02331 |
| 46. | 3485.705 | -.314 | .18E-05 | 0.00 | .31E-08 | 0.000 | .26E-05 | 90.000 | .141E+05 | -180.000 | 3402.246 | -2.326 | .02394 |
| 47. | 3485.110 | -.824 | .18E-05 | 0.00 | .65E-07 | 0.000 | .26E-05 | 90.000 | .143E+05 | 180.000 | 3399.729 | -2.536 | .02450 |
| 48. | 3483.925 | -1.417 | .18E-05 | 0.00 | .12E-06 | 0.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3396.961 | -2.773 | .02496 |
| 49. | 3482.094 | -2.034 | .18E-05 | 0.00 | .16E-06 | 0.000 | .27E-05 | 90.000 | .146E+05 | 180.000 | 3393.983 | -3.019 | .02530 |

EULER ANGLES 90 90 THETA WITH ROT CONS 0 41.5 0 LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3479.619 | -2.623 | .18E-05 | 0.00 | .21E-06 | 0.000 | .27E-05 | 90.000 | .146E+05 | -180.000 | 3390.737 | -3.255 | .02554 |
| 51. | 3476.553 | -3.146 | .18E-05 | 0.00 | .24E-06 | 0.000 | .27E-05 | 90.000 | .147E+05 | 180.000 | 3387.259 | -3.470 | .02568 |
| 52. | 3472.980 | -3.584 | .18E-05 | 0.00 | .28E-06 | 0.000 | .27E-05 | 90.000 | .146E+05 | 180.000 | 3383.578 | -3.654 | .02574 |
| 53. | 3468.993 | -3.931 | .18E-05 | 0.00 | .31E-06 | 0.000 | .26E-05 | 90.000 | .146E+05 | 180.000 | 3379.728 | -3.803 | .02573 |
| 54. | 3464.689 | -4.192 | .18E-05 | 0.00 | .34E-06 | 0.000 | .26E-05 | 90.000 | .145E+05 | 180.000 | 3375.749 | -3.913 | .02567 |
| 55. | 3460.158 | -4.372 | .18E-05 | 0.00 | .37E-06 | 0.000 | .26E-05 | 90.000 | .144E+05 | 180.000 | 3371.682 | -3.984 | .02557 |
| 56. | 3455.480 | -4.482 | .18E-05 | 0.00 | .39E-06 | 0.000 | .26E-05 | 90.000 | .143E+05 | 180.000 | 3367.566 | -4.017 | .02544 |
| 57. | 3450.726 | -4.528 | .18E-05 | 0.00 | .41E-06 | 0.000 | .26E-05 | 90.000 | .142E+05 | 180.000 | 3363.439 | -4.015 | .02530 |
| 58. | 3445.960 | -4.520 | .18E-05 | 0.00 | .42E-06 | 0.000 | .26E-05 | 90.000 | .141E+05 | -180.000 | 3359.337 | -3.977 | .02514 |
| 59. | 3441.234 | -4.464 | .17E-05 | 0.00 | .44E-06 | 0.000 | .26E-05 | 90.000 | .140E+05 | 180.000 | 3355.296 | -3.908 | .02497 |
| 60. | 3436.596 | -4.367 | .17E-05 | 0.00 | .45E-06 | 0.000 | .26E-05 | 90.000 | .139E+05 | 180.000 | 3351.346 | -3.809 | .02481 |
| 61. | 3432.087 | -4.233 | .17E-05 | 0.00 | .46E-06 | 0.000 | .26E-05 | 90.000 | .138E+05 | -180.000 | 3347.516 | -3.683 | .02464 |
| 62. | 3427.740 | -4.068 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .137E+05 | 180.000 | 3343.832 | -3.532 | .02448 |
| 63. | 3423.586 | -3.876 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .137E+05 | 180.000 | 3340.320 | -3.357 | .02432 |
| 64. | 3419.651 | -3.660 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .136E+05 | -180.000 | 3337.000 | -3.161 | .02417 |
| 65. | 3415.957 | -3.423 | .17E-05 | 0.00 | .48E-06 | 0.000 | .25E-05 | 90.000 | .135E+05 | 180.000 | 3333.892 | -2.946 | .02402 |
| 66. | 3412.525 | -3.168 | .17E-05 | 0.00 | .46E-06 | 0.000 | .25E-05 | 90.000 | .135E+05 | 180.000 | 3331.015 | -2.714 | .02389 |
| 67. | 3409.370 | -2.897 | .17E-05 | 0.00 | .48E-06 | 0.000 | .25E-05 | 90.000 | .134E+05 | 180.000 | 3328.385 | -2.466 | .02375 |
| 68. | 3406.507 | -2.612 | .17E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .134E+05 | 180.000 | 3326.015 | -2.205 | .02363 |
| 69. | 3403.949 | -2.316 | .18E-05 | 0.00 | .47E-06 | 0.000 | .25E-05 | 90.000 | .133E+05 | 180.000 | 3323.919 | -1.931 | .02351 |
| 70. | 3401.704 | -2.011 | .18E-05 | 0.00 | .47E-06 | 0.000 | .26E-05 | 90.000 | .133E+05 | -180.000 | 3322.108 | -1.646 | .02340 |
| 71. | 3399.782 | -1.697 | .18E-05 | 0.00 | .46E-06 | 0.000 | .26E-05 | 90.000 | .133E+05 | -180.000 | 3320.591 | -1.352 | .02329 |
| 72. | 3398.190 | -1.377 | .18E-05 | 0.00 | .45E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3319.376 | -1.050 | .02319 |
| 73. | 3396.932 | -1.053 | .18E-05 | 0.00 | .45E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | -180.000 | 3318.470 | -.741 | .02310 |
| 74. | 3396.012 | -.725 | .18E-05 | 0.00 | .44E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3317.878 | -.428 | .02301 |
| 75. | 3395.433 | -.395 | .18E-05 | 0.00 | .43E-06 | 0.000 | .26E-05 | 90.000 | .132E+05 | 180.000 | 3317.606 | -.111 | .02292 |
| 76. | 3395.196 | -.064 | .18E-05 | 0.00 | .42E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3317.655 | .209 | .02284 |
| 77. | 3395.301 | .267 | .18E-05 | 0.00 | .41E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3318.028 | .530 | .02276 |
| 78. | 3395.747 | .595 | .18E-05 | 0.00 | .39E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3318.726 | .851 | .02268 |
| 79. | 3396.532 | .921 | .18E-05 | 0.00 | .38E-06 | 0.000 | .26E-05 | 90.000 | .131E+05 | 180.000 | 3319.748 | 1.170 | .02261 |
| 80. | 3397.653 | 1.244 | .18E-05 | 0.00 | .37E-06 | 0.000 | .26E-05 | 90.000 | .130E+05 | -180.000 | 3321.093 | 1.488 | .02253 |
| 81. | 3399.105 | 1.561 | .18E-05 | 0.00 | .35E-06 | 0.000 | .27E-05 | 90.000 | .130E+05 | -180.000 | 3322.758 | 1.803 | .02246 |
| 82. | 3400.885 | 1.873 | .19E-05 | 0.00 | .34E-06 | 0.000 | .27E-05 | 90.000 | .130E+05 | -180.000 | 3324.742 | 2.113 | .02239 |
| 83. | 3402.986 | 2.179 | .19E-05 | 0.00 | .32E-06 | 0.000 | .27E-05 | 90.000 | .129E+05 | 180.000 | 3327.040 | 2.419 | .02232 |
| 84. | 3405.403 | 2.478 | .19E-05 | 0.00 | .30E-06 | 0.000 | .27E-05 | 90.000 | .129E+05 | 180.000 | 3329.647 | 2.719 | .02225 |
| 85. | 3408.128 | 2.769 | .19E-05 | 0.00 | .29E-06 | 0.000 | .27E-05 | 90.000 | .128E+05 | 180.000 | 3332.558 | 3.012 | .02217 |
| 86. | 3411.155 | 3.052 | .19E-05 | 0.00 | .27E-06 | 0.000 | .27E-05 | 90.000 | .128E+05 | 180.000 | 3335.766 | 3.298 | .02210 |
| 87. | 3414.474 | 3.326 | .19E-05 | 0.00 | .25E-06 | 0.000 | .27E-05 | 90.000 | .127E+05 | 180.000 | 3339.266 | 3.577 | .02203 |
| 88. | 3418.079 | 3.591 | .19E-05 | 0.00 | .23E-06 | 0.000 | .27E-05 | 90.000 | .127E+05 | 180.000 | 3343.050 | 3.847 | .02195 |
| 89. | 3421.960 | 3.847 | .19E-05 | 0.00 | .21E-06 | 0.000 | .27E-05 | 90.000 | .126E+05 | 180.000 | 3347.110 | 4.108 | .02187 |
| 90. | 3426.108 | 4.093 | .19E-05 | 0.00 | .19E-06 | 0.000 | .28E-05 | 90.000 | .125E+05 | -180.000 | 3351.438 | 4.360 | .02179 |
| 91. | 3430.515 | 4.330 | .20E-05 | 0.00 | .17E-06 | 0.000 | .28E-05 | 90.000 | .124E+05 | 180.000 | 3356.027 | 4.602 | .02171 |
| 92. | 3435.171 | 4.556 | .20E-05 | 0.00 | .15E-06 | 0.000 | .28E-05 | 90.000 | .123E+05 | 180.000 | 3360.866 | 4.835 | .02163 |
| 93. | 3440.067 | 4.773 | .20E-05 | 0.00 | .13E-06 | 0.000 | .28E-05 | 90.000 | .122E+05 | -180.000 | 3365.947 | 5.057 | .02155 |
| 94. | 3445.194 | 4.980 | .20E-05 | 0.00 | .11E-06 | 0.000 | .28E-05 | 90.000 | .121E+05 | 180.000 | 3371.261 | 5.270 | .02146 |
| 95. | 3450.542 | 5.177 | .20E-05 | 0.00 | .85E-07 | 0.000 | .28E-05 | 90.000 | .120E+05 | -180.000 | 3376.798 | 5.471 | .02137 |
| 96. | 3456.103 | 5.364 | .20E-05 | 0.00 | .64E-07 | 0.000 | .28E-05 | 90.000 | .119E+05 | -180.000 | 3382.548 | 5.663 | .02128 |
| 97. | 3461.866 | 5.541 | .20E-05 | 0.00 | .44E-07 | 0.000 | .29E-05 | 90.000 | .118E+05 | -180.000 | 3388.502 | 5.843 | .02119 |
| 98. | 3467.823 | 5.709 | .20E-05 | 0.00 | .23E-07 | 0.000 | .29E-05 | 90.000 | .117E+05 | 180.000 | 3394.649 | 6.013 | .02110 |
| 99. | 3473.965 | 5.868 | .20E-05 | 0.00 | .28E-08 | 0.000 | .29E-05 | 90.000 | .115E+05 | -180.000 | 3400.980 | 6.172 | .02101 |

EULER ANGLES 90 90 THETA WITH ROT CONS 0 41.5 0 LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3480.283 | 6.017 | .20E-05 | 0.00 | .17E-07 | -180.000 | .29E-05 | 90.000 | .114E+05 | -180.000 | 3407.483 | 6.320 | .02092 |
| 101. | 3486.766 | 6.156 | .20E-05 | 0.00 | .37E-07 | -180.000 | .29E-05 | 90.000 | .113E+05 | -180.000 | 3414.149 | 6.456 | .02083 |
| 102. | 3493.407 | 6.286 | .20E-05 | 0.00 | .56E-07 | -180.000 | .29E-05 | 90.000 | .111E+05 | -180.000 | 3420.966 | 6.582 | .02074 |
| 103. | 3500.195 | 6.406 | .20E-05 | 0.00 | .74E-07 | 180.000 | .29E-05 | 90.000 | .110E+05 | -180.000 | 3427.924 | 6.696 | .02065 |
| 104. | 3507.121 | 6.517 | .20E-05 | 0.00 | .92E-07 | 180.000 | .29E-05 | 90.000 | .108E+05 | 180.000 | 3435.011 | 6.800 | .02056 |
| 105. | 3514.176 | 6.618 | .20E-05 | 0.00 | .11E-06 | -180.000 | .29E-05 | 90.000 | .107E+05 | -180.000 | 3442.217 | 6.891 | .02048 |
| 106. | 3521.350 | 6.709 | .20E-05 | 0.00 | .13E-06 | 180.000 | .29E-05 | 90.000 | .105E+05 | 180.000 | 3449.529 | 6.972 | .02040 |
| 107. | 3528.631 | 6.790 | .20E-05 | 0.00 | .14E-06 | 180.000 | .29E-05 | 90.000 | .104E+05 | 180.000 | 3456.937 | 7.041 | .02032 |
| 108. | 3536.012 | 6.861 | .20E-05 | 0.00 | .16E-06 | 180.000 | .30E-05 | 90.000 | .102E+05 | 180.000 | 3464.429 | 7.098 | .02024 |
| 109. | 3543.480 | 6.922 | .20E-05 | 0.00 | .17E-06 | 180.000 | .30E-05 | 90.000 | .101E+05 | 180.000 | 3471.993 | 7.145 | .02017 |
| 110. | 3551.024 | 6.972 | .20E-05 | 0.00 | .19E-06 | 180.000 | .30E-05 | 90.000 | .995E+04 | 180.000 | 3479.617 | 7.180 | .02011 |
| 111. | 3558.634 | 7.012 | .20E-05 | 0.00 | .20E-06 | 180.000 | .30E-05 | 90.000 | .981E+04 | 180.000 | 3487.290 | 7.204 | .02005 |
| 112. | 3566.299 | 7.041 | .20E-05 | 0.00 | .21E-06 | 180.000 | .30E-05 | 90.000 | .968E+04 | 180.000 | 3495.000 | 7.217 | .01999 |
| 113. | 3574.006 | 7.059 | .21E-05 | 0.00 | .23E-06 | 180.000 | .30E-05 | 90.000 | .954E+04 | 180.000 | 3502.735 | 7.220 | .01994 |
| 114. | 3581.744 | 7.066 | .21E-05 | 0.00 | .24E-06 | -180.000 | .30E-05 | 90.000 | .941E+04 | -180.000 | 3510.485 | 7.212 | .01990 |
| 115. | 3589.500 | 7.063 | .21E-05 | 0.00 | .25E-06 | -180.000 | .30E-05 | 90.000 | .929E+04 | -180.000 | 3518.238 | 7.194 | .01985 |
| 116. | 3597.263 | 7.048 | .21E-05 | 0.00 | .26E-06 | 180.000 | .30E-05 | 90.000 | .916E+04 | 180.000 | 3525.983 | 7.167 | .01982 |
| 117. | 3605.020 | 7.022 | .21E-05 | 0.00 | .27E-06 | -180.000 | .30E-05 | 90.000 | .904E+04 | -180.000 | 3533.710 | 7.130 | .01978 |
| 118. | 3612.759 | 6.985 | .21E-05 | 0.00 | .28E-06 | 180.000 | .30E-05 | 90.000 | .893E+04 | 180.000 | 3541.409 | 7.084 | .01975 |
| 119. | 3620.466 | 6.936 | .21E-05 | 0.00 | .29E-06 | -180.000 | .30E-05 | 90.000 | .882E+04 | -180.000 | 3549.070 | 7.030 | .01972 |
| 120. | 3628.129 | 6.877 | .21E-05 | 0.00 | .30E-06 | -180.000 | .30E-05 | 90.000 | .871E+04 | -180.000 | 3556.684 | 6.969 | .01969 |
| 121. | 3635.736 | 6.807 | .21E-05 | 0.00 | .30E-06 | 180.000 | .30E-05 | 90.000 | .861E+04 | 180.000 | 3564.242 | 6.900 | .01966 |
| 122. | 3643.274 | 6.726 | .21E-05 | 0.00 | .31E-06 | 180.000 | .30E-05 | 90.000 | .851E+04 | 180.000 | 3571.737 | 6.824 | .01964 |
| 123. | 3650.730 | 6.634 | .21E-05 | 0.00 | .32E-06 | 180.000 | .30E-05 | 90.000 | .842E+04 | -180.000 | 3579.160 | 6.742 | .01960 |
| 124. | 3658.092 | 6.532 | .21E-05 | 0.00 | .33E-06 | -180.000 | .31E-05 | 90.000 | .833E+04 | -180.000 | 3586.505 | 6.655 | .01957 |
| 125. | 3665.348 | 6.420 | .21E-05 | 0.00 | .33E-06 | 180.000 | .31E-05 | 90.000 | .825E+04 | 180.000 | 3593.766 | 6.563 | .01953 |
| 126. | 3672.485 | 6.297 | .21E-05 | 0.00 | .34E-06 | 180.000 | .31E-05 | 90.000 | .817E+04 | 180.000 | 3600.936 | 6.466 | .01948 |
| 127. | 3679.491 | 6.165 | .21E-05 | 0.00 | .35E-06 | -180.000 | .31E-05 | 90.000 | .809E+04 | -180.000 | 3608.011 | 6.366 | .01943 |
| 128. | 3686.355 | 6.023 | .21E-05 | 0.00 | .35E-06 | 180.000 | .31E-05 | 90.000 | .801E+04 | 180.000 | 3614.985 | 6.262 | .01936 |
| 129. | 3693.064 | 5.872 | .21E-05 | 0.00 | .36E-06 | -180.000 | .31E-05 | 90.000 | .794E+04 | -180.000 | 3621.856 | 6.155 | .01928 |
| 130. | 3699.608 | 5.711 | .21E-05 | 0.00 | .36E-06 | -180.000 | .31E-05 | 90.000 | .787E+04 | -180.000 | 3628.618 | 6.046 | .01919 |
| 131. | 3705.976 | 5.542 | .21E-05 | 0.00 | .37E-06 | 180.000 | .31E-05 | 90.000 | .780E+04 | 180.000 | 3635.270 | 5.934 | .01908 |
| 132. | 3712.156 | 5.364 | .21E-05 | 0.00 | .38E-06 | 180.000 | .31E-05 | 90.000 | .774E+04 | 180.000 | 3641.806 | 5.820 | .01895 |
| 133. | 3718.138 | 5.177 | .21E-05 | 0.00 | .38E-06 | -180.000 | .31E-05 | 90.000 | .767E+04 | -180.000 | 3648.226 | 5.704 | .01880 |
| 134. | 3723.912 | 4.983 | .21E-05 | 0.00 | .39E-06 | -180.000 | .31E-05 | 90.000 | .761E+04 | -180.000 | 3654.525 | 5.586 | .01863 |
| 135. | 3729.468 | 4.781 | .21E-05 | 0.00 | .39E-06 | -180.000 | .31E-05 | 90.000 | .755E+04 | -180.000 | 3660.701 | 5.466 | .01844 |
| 136. | 3734.796 | 4.571 | .21E-05 | 0.00 | .40E-06 | 180.000 | .31E-05 | 90.000 | .748E+04 | -180.000 | 3666.751 | 5.344 | .01822 |
| 137. | 3739.887 | 4.354 | .21E-05 | 0.00 | .40E-06 | -180.000 | .31E-05 | 90.000 | .742E+04 | -180.000 | 3672.672 | 5.219 | .01797 |
| 138. | 3744.732 | 4.130 | .21E-05 | 0.00 | .41E-06 | -180.000 | .31E-05 | 90.000 | .736E+04 | -180.000 | 3678.459 | 5.091 | .01770 |
| 139. | 3749.322 | 3.898 | .21E-05 | 0.00 | .42E-06 | 180.000 | .31E-05 | 90.000 | .730E+04 | 180.000 | 3684.108 | 4.959 | .01739 |
| 140. | 3753.648 | 3.661 | .21E-05 | 0.00 | .42E-06 | -180.000 | .31E-05 | 90.000 | .723E+04 | -180.000 | 3689.615 | 4.823 | .01706 |
| 141. | 3757.702 | 3.416 | .21E-05 | 0.00 | .43E-06 | -180.000 | .31E-05 | 90.000 | .716E+04 | -180.000 | 3694.973 | 4.681 | .01669 |
| 142. | 3761.476 | 3.166 | .21E-05 | 0.00 | .44E-06 | -180.000 | .31E-05 | 90.000 | .710E+04 | -180.000 | 3700.174 | 4.534 | .01630 |
| 143. | 3764.961 | 2.908 | .22E-05 | 0.00 | .45E-06 | 180.000 | .31E-05 | 90.000 | .702E+04 | 180.000 | 3705.211 | 4.378 | .01587 |
| 144. | 3768.150 | 2.645 | .22E-05 | 0.00 | .45E-06 | 180.000 | .31E-05 | 90.000 | .695E+04 | 180.000 | 3710.073 | 4.214 | .01541 |
| 145. | 3771.035 | 2.375 | .22E-05 | 0.00 | .46E-06 | 180.000 | .31E-05 | 90.000 | .687E+04 | 180.000 | 3714.750 | 4.040 | .01493 |
| 146. | 3773.607 | 2.099 | .22E-05 | 0.00 | .47E-06 | 180.000 | .31E-05 | 90.000 | .679E+04 | 180.000 | 3719.226 | 3.853 | .01441 |
| 147. | 3775.859 | 1.815 | .22E-05 | 0.00 | .48E-06 | -180.000 | .31E-05 | 90.000 | .670E+04 | -180.000 | 3723.488 | 3.653 | .01387 |
| 148. | 3777.782 | 1.525 | .22E-05 | 0.00 | .50E-06 | -180.000 | .31E-05 | 90.000 | .660E+04 | -180.000 | 3727.519 | 3.438 | .01330 |
| 149. | 3779.367 | 1.228 | .22E-05 | 0.00 | .51E-06 | -180.000 | .31E-05 | 90.000 | .651E+04 | -180.000 | 3731.298 | 3.205 | .01272 |

EULER ANGLES 90 90 THETA WITH ROT CONS 0 41.5 0 LITHIUM NIOBATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3780.607 | .923 | .22E-05 | 0.00 | .52E-06 | 180.000 | .31E-05 | 90.000 | .640E+04 | 180.000 | 3734.805 | 2.954 | .01211 |
| 151. | 3781.491 | .610 | .22E-05 | 0.00 | .54E-06 | 180.000 | .31E-05 | 90.000 | .629E+04 | -180.000 | 3738.017 | 2.681 | .01150 |
| 152. | 3782.010 | .289 | .22E-05 | 0.00 | .56E-06 | -180.000 | .31E-05 | 90.000 | .618E+04 | -180.000 | 3740.906 | 2.385 | .01087 |
| 153. | 3782.154 | -.041 | .22E-05 | 0.00 | .58E-06 | 180.000 | .31E-05 | 90.000 | .606E+04 | -180.000 | 3743.447 | 2.066 | .01023 |
| 154. | 3781.913 | -.380 | .22E-05 | 0.00 | .60E-06 | -180.000 | .31E-05 | 90.000 | .593E+04 | -180.000 | 3745.610 | 1.721 | .00960 |
| 155. | 3781.276 | -.728 | .22E-05 | 0.00 | .62E-06 | 180.000 | .32E-05 | 90.000 | .580E+04 | 180.000 | 3747.365 | 1.350 | .00897 |
| 156. | 3780.233 | -1.085 | .23E-05 | 0.00 | .64E-06 | -180.000 | .32E-05 | 90.000 | .566E+04 | -180.000 | 3748.682 | .952 | .00835 |
| 157. | 3778.774 | -1.451 | .23E-05 | 0.00 | .67E-06 | 180.000 | .32E-05 | 90.000 | .552E+04 | 180.000 | 3749.530 | .530 | .00774 |
| 158. | 3776.889 | -1.825 | .23E-05 | 0.00 | .69E-06 | 180.000 | .32E-05 | 90.000 | .538E+04 | 180.000 | 3749.882 | .083 | .00715 |
| 159. | 3774.572 | -2.205 | .23E-05 | 0.00 | .72E-06 | -180.000 | .32E-05 | 90.000 | .523E+04 | -180.000 | 3749.712 | -.384 | .00659 |
| 160. | 3771.815 | -2.590 | .23E-05 | 0.00 | .75E-06 | -180.000 | .32E-05 | 90.000 | .508E+04 | -180.000 | 3748.998 | -.868 | .00605 |
| 161. | 3768.616 | -2.977 | .23E-05 | 0.00 | .78E-06 | -180.000 | .32E-05 | 90.000 | .493E+04 | -180.000 | 3747.724 | -1.364 | .00554 |
| 162. | 3764.974 | -3.363 | .23E-05 | 0.00 | .82E-06 | -180.000 | .32E-05 | 90.000 | .478E+04 | -180.000 | 3745.880 | -1.866 | .00507 |
| 163. | 3760.895 | -3.745 | .23E-05 | 0.00 | .85E-06 | 180.000 | .32E-05 | 90.000 | .464E+04 | 180.000 | 3743.464 | -2.367 | .00463 |
| 164. | 3756.385 | -4.119 | .23E-05 | 0.00 | .88E-06 | 180.000 | .32E-05 | 90.000 | .450E+04 | 180.000 | 3740.483 | -2.859 | .00423 |
| 165. | 3751.458 | -4.480 | .23E-05 | 0.00 | .92E-06 | 180.000 | .32E-05 | 90.000 | .436E+04 | 180.000 | 3736.949 | -3.336 | .00387 |
| 166. | 3746.131 | -4.826 | .23E-05 | 0.00 | .95E-06 | -180.000 | .32E-05 | 90.000 | .422E+04 | 180.000 | 3732.887 | -3.792 | .00354 |
| 167. | 3740.425 | -5.153 | .23E-05 | 0.00 | .98E-06 | 180.000 | .32E-05 | 90.000 | .409E+04 | 180.000 | 3728.325 | -4.220 | .00323 |
| 168. | 3734.364 | -5.459 | .24E-05 | 0.00 | .10E-05 | 180.000 | .32E-05 | 90.000 | .397E+04 | 180.000 | 3723.297 | -4.617 | .00296 |
| 169. | 3727.977 | -5.741 | .24E-05 | 0.00 | .10E-05 | -180.000 | .32E-05 | 90.000 | .384E+04 | -180.000 | 3717.844 | -4.979 | .00272 |
| 170. | 3721.292 | -5.998 | .24E-05 | 0.00 | .11E-05 | 180.000 | .32E-05 | 90.000 | .373E+04 | 180.000 | 3712.006 | -5.305 | .00250 |
| 171. | 3714.340 | -6.229 | .24E-05 | 0.00 | .11E-05 | -180.000 | .32E-05 | 90.000 | .361E+04 | -180.000 | 3705.827 | -5.594 | .00229 |
| 172. | 3707.151 | -6.435 | .24E-05 | 0.00 | .11E-05 | -180.000 | .32E-05 | 90.000 | .349E+04 | -180.000 | 3699.350 | -5.847 | .00210 |
| 173. | 3699.756 | -6.615 | .24E-05 | 0.00 | .12E-05 | 180.000 | .32E-05 | 90.000 | .338E+04 | 180.000 | 3692.616 | -6.066 | .00193 |
| 174. | 3692.185 | -6.770 | .24E-05 | 0.00 | .12E-05 | 180.000 | .32E-05 | 90.000 | .326E+04 | 180.000 | 3685.665 | -6.251 | .00177 |
| 175. | 3684.465 | -6.902 | .24E-05 | 0.00 | .12E-05 | -180.000 | .32E-05 | 90.000 | .314E+04 | -180.000 | 3678.534 | -6.406 | .00161 |
| 176. | 3676.626 | -7.010 | .24E-05 | 0.00 | .12E-05 | 180.000 | .32E-05 | 90.000 | .301E+04 | 180.000 | 3671.259 | -6.533 | .00146 |
| 177. | 3668.693 | -7.097 | .24E-05 | 0.00 | .12E-05 | 180.000 | .32E-05 | 90.000 | .288E+04 | 180.000 | 3663.869 | -6.633 | .00131 |
| 178. | 3660.691 | -7.162 | .24E-05 | 0.00 | .13E-05 | 180.000 | .32E-05 | 90.000 | .274E+04 | 180.000 | 3656.395 | -6.710 | .00117 |
| 179. | 3652.645 | -7.207 | .24E-05 | 0.00 | .13E-05 | 180.000 | .32E-05 | 90.000 | .258E+04 | 180.000 | 3648.861 | -6.766 | .00104 |
| 180. | 3644.577 | -7.232 | .24E-05 | 0.00 | .13E-05 | 180.000 | .32E-05 | 90.000 | .242E+04 | 180.000 | 3641.291 | -6.802 | .00090 |

Y-CUT LITHIUM TANTALATE (WAGNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3148.114 | 0.000 | .19E-05 | 0.00 | .83E-06 | -90.000 | .28E-05 | 90.000 | .166E+04 | 90.000 | 3146.960 | 0.000 | .00037 |
| 1. | 3148.190 | .159 | .19E-05 | 0.00 | .83E-06 | -90.426 | .28E-05 | 90.240 | .167E+04 | 92.403 | 3147.032 | .151 | .00037 |
| 2. | 3148.418 | .317 | .19E-05 | 0.00 | .82E-06 | -90.854 | .28E-05 | 90.480 | .167E+04 | 94.788 | 3147.249 | .302 | .00037 |
| 3. | 3148.798 | .474 | .19E-05 | 0.00 | .82E-06 | -91.289 | .28E-05 | 90.720 | .169E+04 | 97.138 | 3147.610 | .451 | .00038 |
| 4. | 3149.328 | .630 | .19E-05 | 0.00 | .82E-06 | -91.732 | .28E-05 | 90.960 | .171E+04 | 99.436 | 3148.113 | .598 | .00039 |
| 5. | 3150.006 | .783 | .19E-05 | 0.00 | .82E-06 | -92.188 | .28E-05 | 91.199 | .173E+04 | 101.668 | 3148.756 | .743 | .00040 |
| 6. | 3150.830 | .933 | .19E-05 | 0.00 | .82E-06 | -92.659 | .28E-05 | 91.438 | .176E+04 | 103.822 | 3149.537 | .885 | .00041 |
| 7. | 3151.796 | 1.080 | .19E-05 | 0.00 | .82E-06 | -93.150 | .28E-05 | 91.677 | .180E+04 | 105.885 | 3150.453 | 1.023 | .00043 |
| 8. | 3152.902 | 1.222 | .19E-05 | 0.00 | .81E-06 | -93.663 | .28E-05 | 91.915 | .184E+04 | 107.851 | 3151.499 | 1.156 | .00044 |
| 9. | 3154.142 | 1.359 | .19E-05 | 0.00 | .81E-06 | -94.203 | .28E-05 | 92.153 | .188E+04 | 109.710 | 3152.672 | 1.285 | .00047 |
| 10. | 3155.512 | 1.491 | .20E-05 | 0.00 | .80E-06 | -94.774 | .28E-05 | 92.390 | .193E+04 | 111.460 | 3153.965 | 1.407 | .00049 |
| 11. | 3157.007 | 1.617 | .20E-05 | 0.00 | .80E-06 | -95.382 | .28E-05 | 92.627 | .198E+04 | 113.098 | 3155.374 | 1.523 | .00052 |
| 12. | 3158.620 | 1.735 | .20E-05 | 0.00 | .79E-06 | -96.032 | .28E-05 | 92.863 | .204E+04 | 114.620 | 3156.891 | 1.631 | .00055 |
| 13. | 3160.344 | 1.845 | .20E-05 | 0.00 | .79E-06 | -96.729 | .28E-05 | 93.098 | .210E+04 | 116.028 | 3158.510 | 1.731 | .00058 |
| 14. | 3162.172 | 1.947 | .20E-05 | 0.00 | .78E-06 | -97.481 | .28E-05 | 93.333 | .217E+04 | 117.322 | 3160.221 | 1.822 | .00062 |
| 15. | 3164.093 | 2.038 | .20E-05 | 0.00 | .77E-06 | -98.296 | .28E-05 | 93.567 | .224E+04 | 118.504 | 3162.016 | 1.903 | .00066 |
| 16. | 3166.099 | 2.119 | .20E-05 | 0.00 | .77E-06 | -99.182 | .28E-05 | 93.801 | .232E+04 | 119.576 | 3163.884 | 1.972 | .00070 |
| 17. | 3168.179 | 2.188 | .20E-05 | 0.00 | .76E-06 | -100.149 | .28E-05 | 94.033 | .240E+04 | 120.541 | 3165.815 | 2.030 | .00075 |
| 18. | 3170.321 | 2.244 | .20E-05 | 0.00 | .75E-06 | -101.209 | .28E-05 | 94.265 | .248E+04 | 121.402 | 3167.796 | 2.074 | .00080 |
| 19. | 3172.511 | 2.286 | .20E-05 | 0.00 | .74E-06 | -102.373 | .28E-05 | 94.496 | .256E+04 | 122.162 | 3169.815 | 2.103 | .00085 |
| 20. | 3174.736 | 2.312 | .20E-05 | 0.00 | .73E-06 | -103.650 | .29E-05 | 94.727 | .265E+04 | 122.824 | 3171.855 | 2.117 | .00091 |
| 21. | 3176.980 | 2.321 | .20E-05 | 0.00 | .71E-06 | -105.081 | .29E-05 | 94.956 | .275E+04 | 123.392 | 3173.903 | 2.115 | .00097 |
| 22. | 3179.225 | 2.312 | .20E-05 | 0.00 | .70E-06 | -106.662 | .29E-05 | 95.185 | .284E+04 | 123.869 | 3175.940 | 2.094 | .00103 |
| 23. | 3181.453 | 2.282 | .20E-05 | 0.00 | .69E-06 | -108.422 | .29E-05 | 95.412 | .294E+04 | 124.259 | 3177.950 | 2.054 | .00110 |
| 24. | 3183.644 | 2.232 | .20E-05 | 0.00 | .67E-06 | -110.390 | .29E-05 | 95.638 | .304E+04 | 124.565 | 3179.912 | 1.993 | .00117 |
| 25. | 3185.776 | 2.158 | .20E-05 | 0.00 | .66E-06 | -112.593 | .29E-05 | 95.862 | .314E+04 | 124.791 | 3181.806 | 1.911 | .00125 |
| 26. | 3187.827 | 2.061 | .20E-05 | 0.00 | .64E-06 | -115.068 | .29E-05 | 96.085 | .324E+04 | 124.942 | 3183.611 | 1.807 | .00132 |
| 27. | 3189.772 | 1.938 | .20E-05 | 0.00 | .63E-06 | -117.851 | .29E-05 | 96.305 | .334E+04 | 125.021 | 3185.305 | 1.681 | .00140 |
| 28. | 3191.586 | 1.789 | .20E-05 | 0.00 | .61E-06 | -120.983 | .29E-05 | 96.521 | .344E+04 | 125.033 | 3186.866 | 1.531 | .00148 |
| 29. | 3193.243 | 1.614 | .20E-05 | 0.00 | .59E-06 | -124.507 | .29E-05 | 96.734 | .354E+04 | 124.984 | 3188.272 | 1.359 | .00156 |
| 30. | 3194.718 | 1.413 | .21E-05 | 0.00 | .57E-06 | -128.464 | .29E-05 | 96.942 | .364E+04 | 124.879 | 3189.500 | 1.166 | .00163 |
| 31. | 3195.985 | 1.187 | .21E-05 | 0.00 | .56E-06 | -132.888 | .29E-05 | 97.144 | .373E+04 | 124.726 | 3190.532 | .954 | .00171 |
| 32. | 3197.021 | .938 | .21E-05 | 0.00 | .54E-06 | -137.799 | .29E-05 | 97.338 | .381E+04 | 124.531 | 3191.349 | .725 | .00177 |
| 33. | 3197.806 | .671 | .21E-05 | 0.00 | .53E-06 | -143.197 | .30E-05 | 97.524 | .389E+04 | 124.305 | 3191.937 | .483 | .00184 |
| 34. | 3198.323 | .389 | .21E-05 | 0.00 | .52E-06 | -149.035 | .30E-05 | 97.698 | .396E+04 | 124.056 | 3192.285 | .232 | .00189 |
| 35. | 3198.559 | .096 | .21E-05 | 0.00 | .52E-06 | -155.247 | .30E-05 | 97.860 | .401E+04 | 123.797 | 3192.387 | -.022 | .00193 |
| 36. | 3198.509 | -.198 | .21E-05 | 0.00 | .52E-06 | -161.711 | .30E-05 | 98.007 | .405E+04 | 123.541 | 3192.244 | -.273 | .00196 |
| 37. | 3198.175 | -.487 | .21E-05 | 0.00 | .52E-06 | -168.280 | .30E-05 | 98.137 | .408E+04 | 123.301 | 3191.860 | -.514 | .00197 |
| 38. | 3197.565 | -.762 | .21E-05 | 0.00 | .53E-06 | -174.795 | .30E-05 | 98.248 | .409E+04 | 123.094 | 3191.249 | -.740 | .00198 |
| 39. | 3196.697 | -1.016 | .21E-05 | 0.00 | .54E-06 | 178.890 | .30E-05 | 98.339 | .409E+04 | 122.935 | 3190.428 | -.944 | .00196 |
| 40. | 3195.596 | -1.241 | .20E-05 | 0.00 | .56E-06 | 172.991 | .30E-05 | 98.407 | .407E+04 | 122.844 | 3189.422 | -1.122 | .00193 |
| 41. | 3194.232 | -1.431 | .20E-05 | 0.00 | .58E-06 | 167.283 | .30E-05 | 98.451 | .403E+04 | 122.838 | 3188.259 | -1.267 | .00189 |
| 42. | 3192.823 | -1.581 | .20E-05 | 0.00 | .60E-06 | 162.100 | .29E-05 | 98.470 | .398E+04 | 122.938 | 3186.972 | -1.378 | .00183 |
| 43. | 3191.230 | -1.687 | .20E-05 | 0.00 | .63E-06 | 157.345 | .29E-05 | 98.464 | .392E+04 | 123.165 | 3185.595 | -1.452 | .00177 |
| 44. | 3189.556 | -1.749 | .20E-05 | 0.00 | .65E-06 | 153.000 | .29E-05 | 98.433 | .384E+04 | 123.540 | 3184.166 | -1.488 | .00169 |
| 45. | 3187.845 | -1.765 | .20E-05 | 0.00 | .67E-06 | 149.031 | .29E-05 | 98.376 | .375E+04 | 124.086 | 3182.719 | -1.488 | .00161 |
| 46. | 3186.141 | -1.738 | .20E-05 | 0.00 | .69E-06 | 145.401 | .29E-05 | 98.294 | .368E+04 | 124.825 | 3181.291 | -1.452 | .00152 |
| 47. | 3184.485 | -1.669 | .20E-05 | 0.00 | .71E-06 | 142.071 | .29E-05 | 98.189 | .355E+04 | 125.780 | 3179.916 | -1.383 | .00143 |
| 48. | 3182.914 | -1.563 | .20E-05 | 0.00 | .73E-06 | 139.004 | .29E-05 | 98.062 | .345E+04 | 126.973 | 3178.622 | -1.283 | .00135 |
| 49. | 3181.453 | -1.424 | .20E-05 | 0.00 | .75E-06 | 136.168 | .29E-05 | 97.915 | .334E+04 | 128.424 | 3177.439 | -1.157 | .00126 |

Y-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3180.153 | -1.255 | .19E-05 | 0.00 | .76E-06 | 133.532 | .29E-05 | 97.749 | .324E+04 | 130.149 | 3176.390 | -1.007 | .00119 |
| 51. | 3179.039 | -1.062 | .19E-05 | 0.00 | .77E-06 | 131.072 | .29E-05 | 97.566 | .315E+04 | 132.160 | 3175.495 | -.839 | .00111 |
| 52. | 3178.111 | -.850 | .19E-05 | 0.00 | .79E-06 | 128.767 | .28E-05 | 97.369 | .306E+04 | 134.459 | 3174.772 | -.655 | .00105 |
| 53. | 3177.398 | -.622 | .19E-05 | 0.00 | .79E-06 | 126.598 | .28E-05 | 97.160 | .298E+04 | 137.040 | 3174.233 | -.459 | .00100 |
| 54. | 3176.910 | -.384 | .19E-05 | 0.00 | .80E-06 | 124.551 | .28E-05 | 96.941 | .291E+04 | 139.881 | 3173.887 | -.255 | .00095 |
| 55. | 3176.656 | -.139 | .19E-05 | 0.00 | .80E-06 | 122.614 | .28E-05 | 96.713 | .286E+04 | 142.948 | 3173.741 | -.046 | .00092 |
| 56. | 3176.641 | .108 | .19E-05 | 0.00 | .80E-06 | 120.775 | .28E-05 | 96.480 | .283E+04 | 146.190 | 3173.798 | .163 | .00089 |
| 57. | 3176.865 | .355 | .19E-05 | 0.00 | .80E-06 | 119.028 | .28E-05 | 96.243 | .281E+04 | 149.545 | 3174.057 | .372 | .00088 |
| 58. | 3177.327 | .598 | .19E-05 | 0.00 | .80E-06 | 117.364 | .28E-05 | 96.005 | .282E+04 | 152.944 | 3174.516 | .576 | .00088 |
| 59. | 3178.020 | .834 | .19E-05 | 0.00 | .80E-06 | 115.778 | .28E-05 | 95.766 | .284E+04 | 156.315 | 3175.169 | .774 | .00090 |
| 60. | 3178.938 | 1.060 | .19E-05 | 0.00 | .79E-06 | 114.266 | .28E-05 | 95.529 | .288E+04 | 159.589 | 3176.010 | .963 | .00092 |
| 61. | 3180.070 | 1.275 | .19E-05 | 0.00 | .78E-06 | 112.822 | .28E-05 | 95.295 | .293E+04 | 162.708 | 3177.029 | 1.141 | .00096 |
| 62. | 3181.405 | 1.476 | .19E-05 | 0.00 | .77E-06 | 111.445 | .28E-05 | 95.065 | .300E+04 | 165.629 | 3178.215 | 1.307 | .00100 |
| 63. | 3182.928 | 1.662 | .19E-05 | 0.00 | .76E-06 | 110.131 | .28E-05 | 94.842 | .309E+04 | 168.322 | 3179.556 | 1.459 | .00106 |
| 64. | 3184.624 | 1.831 | .19E-05 | 0.00 | .75E-06 | 108.877 | .28E-05 | 94.625 | .319E+04 | 170.770 | 3181.038 | 1.597 | .00113 |
| 65. | 3186.476 | 1.982 | .19E-05 | 0.00 | .73E-06 | 107.683 | .28E-05 | 94.416 | .329E+04 | 172.970 | 3182.646 | 1.719 | .00120 |
| 66. | 3188.467 | 2.114 | .19E-05 | 0.00 | .72E-06 | 106.545 | .28E-05 | 94.215 | .341E+04 | 174.928 | 3184.366 | 1.824 | .00129 |
| 67. | 3190.578 | 2.226 | .19E-05 | 0.00 | .70E-06 | 105.464 | .28E-05 | 94.024 | .353E+04 | 176.654 | 3186.181 | 1.913 | .00138 |
| 68. | 3192.791 | 2.319 | .19E-05 | 0.00 | .68E-06 | 104.435 | .28E-05 | 93.842 | .366E+04 | 178.165 | 3188.075 | 1.984 | .00148 |
| 69. | 3195.084 | 2.390 | .19E-05 | 0.00 | .66E-06 | 103.462 | .28E-05 | 93.670 | .379E+04 | 179.479 | 3190.030 | 2.038 | .00158 |
| 70. | 3197.439 | 2.441 | .19E-05 | 0.00 | .64E-06 | 102.539 | .28E-05 | 93.508 | .392E+04 | -179.385 | 3192.031 | 2.074 | .00169 |
| 71. | 3199.835 | 2.471 | .20E-05 | 0.00 | .62E-06 | 101.668 | .28E-05 | 93.356 | .405E+04 | -178.408 | 3194.060 | 2.093 | .00180 |
| 72. | 3202.253 | 2.481 | .20E-05 | 0.00 | .59E-06 | 100.847 | .29E-05 | 93.215 | .418E+04 | -177.573 | 3196.100 | 2.094 | .00192 |
| 73. | 3204.671 | 2.470 | .20E-05 | 0.00 | .57E-06 | 100.075 | .29E-05 | 93.083 | .431E+04 | -176.861 | 3198.134 | 2.079 | .00204 |
| 74. | 3207.071 | 2.439 | .20E-05 | 0.00 | .54E-06 | 99.352 | .29E-05 | 92.962 | .443E+04 | -176.259 | 3200.148 | 2.048 | .00216 |
| 75. | 3209.434 | 2.390 | .20E-05 | 0.00 | .51E-06 | 98.676 | .29E-05 | 92.851 | .455E+04 | -175.750 | 3202.124 | 2.001 | .00228 |
| 76. | 3211.740 | 2.321 | .20E-05 | 0.00 | .48E-06 | 98.047 | .29E-05 | 92.749 | .467E+04 | -175.324 | 3204.049 | 1.939 | .00239 |
| 77. | 3213.972 | 2.235 | .20E-05 | 0.00 | .45E-06 | 97.465 | .29E-05 | 92.657 | .478E+04 | -174.969 | 3205.907 | 1.863 | .00251 |
| 78. | 3216.113 | 2.132 | .20E-05 | 0.00 | .42E-06 | 96.929 | .29E-05 | 92.573 | .489E+04 | -174.673 | 3207.685 | 1.774 | .00262 |
| 79. | 3218.147 | 2.013 | .20E-05 | 0.00 | .39E-06 | 96.438 | .29E-05 | 92.498 | .499E+04 | -174.430 | 3209.370 | 1.672 | .00273 |
| 80. | 3220.057 | 1.880 | .20E-05 | 0.00 | .36E-06 | 95.991 | .29E-05 | 92.431 | .508E+04 | -174.231 | 3210.950 | 1.558 | .00283 |
| 81. | 3221.831 | 1.732 | .20E-05 | 0.00 | .32E-06 | 95.588 | .29E-05 | 92.372 | .517E+04 | -174.069 | 3212.415 | 1.433 | .00292 |
| 82. | 3223.454 | 1.572 | .20E-05 | 0.00 | .29E-06 | 95.229 | .29E-05 | 92.320 | .525E+04 | -173.939 | 3213.753 | 1.299 | .00301 |
| 83. | 3224.915 | 1.401 | .20E-05 | 0.00 | .26E-06 | 94.914 | .29E-05 | 92.275 | .532E+04 | -173.835 | 3214.955 | 1.156 | .00309 |
| 84. | 3226.203 | 1.220 | .20E-05 | 0.00 | .22E-06 | 94.641 | .29E-05 | 92.237 | .538E+04 | -173.753 | 3216.014 | 1.005 | .00316 |
| 85. | 3227.310 | 1.030 | .20E-05 | 0.00 | .18E-06 | 94.411 | .29E-05 | 92.205 | .543E+04 | -173.690 | 3216.922 | .848 | .00322 |
| 86. | 3228.226 | .833 | .20E-05 | 0.00 | .15E-06 | 94.223 | .29E-05 | 92.180 | .547E+04 | -173.642 | 3217.674 | .685 | .00327 |
| 87. | 3228.945 | .630 | .20E-05 | 0.00 | .11E-06 | 94.077 | .29E-05 | 92.160 | .551E+04 | -173.607 | 3218.263 | .518 | .00331 |
| 88. | 3229.463 | .422 | .20E-05 | 0.00 | .74E-07 | 93.973 | .29E-05 | 92.146 | .553E+04 | -173.583 | 3218.687 | .347 | .00334 |
| 89. | 3229.775 | .212 | .20E-05 | 0.00 | .37E-07 | 93.910 | .29E-05 | 92.138 | .554E+04 | -173.570 | 3218.943 | .174 | .00335 |
| 90. | 3229.879 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.135 | .555E+04 | -173.565 | 3219.028 | 0.000 | .00336 |
| 91. | 3229.775 | -.212 | .20E-05 | 0.00 | .37E-07 | -86.090 | .29E-05 | 92.138 | .554E+04 | -173.570 | 3218.943 | -.174 | .00335 |
| 92. | 3229.463 | -.422 | .20E-05 | 0.00 | .74E-07 | -86.027 | .29E-05 | 92.146 | .553E+04 | -173.583 | 3218.687 | -.347 | .00334 |
| 93. | 3228.945 | -.630 | .20E-05 | 0.00 | .11E-06 | -85.923 | .29E-05 | 92.160 | .551E+04 | -173.607 | 3218.263 | -.518 | .00331 |
| 94. | 3228.226 | -.833 | .20E-05 | 0.00 | .15E-06 | -85.777 | .29E-05 | 92.180 | .547E+04 | -173.642 | 3217.674 | -.685 | .00327 |
| 95. | 3227.310 | -1.030 | .20E-05 | 0.00 | .18E-06 | -85.589 | .29E-05 | 92.205 | .543E+04 | -173.690 | 3216.922 | -.848 | .00322 |
| 96. | 3226.203 | -1.220 | .20E-05 | 0.00 | .22E-06 | -85.359 | .29E-05 | 92.237 | .538E+04 | -173.753 | 3216.014 | -1.005 | .00316 |
| 97. | 3224.915 | -1.401 | .20E-05 | 0.00 | .26E-06 | -85.086 | .29E-05 | 92.275 | .532E+04 | -173.835 | 3214.955 | -1.156 | .00309 |
| 98. | 3223.454 | -1.572 | .20E-05 | 0.00 | .29E-06 | -84.771 | .29E-05 | 92.320 | .525E+04 | -173.939 | 3213.753 | -1.299 | .00301 |
| 99. | 3221.831 | -1.732 | .20E-05 | 0.00 | .32E-06 | -84.412 | .29E-05 | 92.372 | .517E+04 | -174.069 | 3212.415 | -1.433 | .00292 |

Y-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3220.057 | -1.880 | .20E-05 | 0.00 | .76E-06 | -84.009 | .29E-05 | 92.431 | .508E+04 | -174.231 | 3210.950 | -1.558 | .00203 |
| 101. | 3218.147 | -2.013 | .20E-05 | 0.00 | .39E-06 | -83.562 | .29E-05 | 92.498 | .499E+04 | -174.430 | 3209.370 | -1.672 | .00273 |
| 102. | 3216.113 | -2.132 | .20E-05 | 0.00 | .42E-06 | -83.071 | .29E-05 | 92.573 | .489E+04 | -174.673 | 3207.685 | -1.774 | .00262 |
| 103. | 3213.972 | -2.235 | .20E-05 | 0.00 | .45E-06 | -82.535 | .29E-05 | 92.657 | .478E+04 | -174.968 | 3205.907 | -1.863 | .00251 |
| 104. | 3211.740 | -2.321 | .20E-05 | 0.00 | .48E-06 | -81.952 | .29E-05 | 92.749 | .467E+04 | -175.324 | 3204.049 | -1.939 | .00239 |
| 105. | 3209.434 | -2.390 | .20E-05 | 0.00 | .51E-06 | -81.324 | .29E-05 | 92.851 | .455E+04 | -175.750 | 3202.124 | -2.001 | .00228 |
| 106. | 3207.071 | -2.439 | .20E-05 | 0.00 | .54E-06 | -80.648 | .29E-05 | 92.962 | .443E+04 | -176.258 | 3200.148 | -2.048 | .00216 |
| 107. | 3204.671 | -2.470 | .20E-05 | 0.00 | .57E-06 | -79.925 | .29E-05 | 93.083 | .431E+04 | -176.861 | 3198.134 | -2.079 | .00204 |
| 108. | 3202.253 | -2.481 | .20E-05 | 0.00 | .59E-06 | -79.153 | .29E-05 | 93.215 | .418E+04 | -177.573 | 3196.100 | -2.094 | .00192 |
| 109. | 3199.835 | -2.471 | .20E-05 | 0.00 | .62E-06 | -78.332 | .28E-05 | 93.356 | .405E+04 | -178.408 | 3194.060 | -2.093 | .00180 |
| 110. | 3197.439 | -2.441 | .19E-05 | 0.00 | .64E-06 | -77.461 | .28E-05 | 93.508 | .392E+04 | -179.385 | 3192.031 | -2.074 | .00169 |
| 111. | 3195.084 | -2.390 | .19E-05 | 0.00 | .66E-06 | -76.538 | .28E-05 | 93.670 | .379E+04 | 179.479 | 3190.030 | -2.038 | .00158 |
| 112. | 3192.791 | -2.319 | .19E-05 | 0.00 | .68E-06 | -75.564 | .28E-05 | 93.842 | .366E+04 | 178.165 | 3188.075 | -1.984 | .00148 |
| 113. | 3190.578 | -2.226 | .19E-05 | 0.00 | .70E-06 | -74.536 | .28E-05 | 94.024 | .353E+04 | 176.654 | 3186.181 | -1.913 | .00138 |
| 114. | 3188.467 | -2.114 | .19E-05 | 0.00 | .72E-06 | -73.455 | .28E-05 | 94.215 | .341E+04 | 174.928 | 3184.366 | -1.824 | .00129 |
| 115. | 3186.476 | -1.982 | .19E-05 | 0.00 | .73E-06 | -72.317 | .28E-05 | 94.416 | .329E+04 | 172.970 | 3182.646 | -1.719 | .00120 |
| 116. | 3184.624 | -1.831 | .19E-05 | 0.00 | .75E-06 | -71.123 | .28E-05 | 94.625 | .319E+04 | 170.770 | 3181.038 | -1.597 | .00113 |
| 117. | 3182.928 | -1.662 | .19E-05 | 0.00 | .76E-06 | -69.869 | .28E-05 | 94.842 | .309E+04 | 168.322 | 3179.556 | -1.459 | .00106 |
| 118. | 3181.405 | -1.476 | .19E-05 | 0.00 | .77E-06 | -68.555 | .28E-05 | 95.065 | .300E+04 | 165.629 | 3178.215 | -1.307 | .00100 |
| 119. | 3180.070 | -1.275 | .19E-05 | 0.00 | .78E-06 | -67.178 | .28E-05 | 95.295 | .293E+04 | 162.708 | 3177.029 | -1.141 | .00096 |
| 120. | 3178.938 | -1.060 | .19E-05 | 0.00 | .79E-06 | -65.734 | .28E-05 | 95.529 | .288E+04 | 159.588 | 3176.010 | -.963 | .00092 |
| 121. | 3178.020 | -.834 | .19E-05 | 0.00 | .80E-06 | -64.222 | .28E-05 | 95.766 | .284E+04 | 156.315 | 3175.169 | -.774 | .00090 |
| 122. | 3177.327 | -.598 | .19E-05 | 0.00 | .80E-06 | -62.636 | .28E-05 | 96.005 | .282E+04 | 152.944 | 3174.516 | -.576 | .00088 |
| 123. | 3176.865 | -.355 | .19E-05 | 0.00 | .80E-06 | -60.972 | .28E-05 | 96.243 | .281E+04 | 149.545 | 3174.057 | -.372 | .00088 |
| 124. | 3176.641 | -.108 | .19E-05 | 0.00 | .80E-06 | -59.225 | .28E-05 | 96.480 | .283E+04 | 146.190 | 3173.798 | -.163 | .00089 |
| 125. | 3176.656 | .139 | .19E-05 | 0.00 | .80E-06 | -57.386 | .28E-05 | 96.713 | .286E+04 | 142.948 | 3173.741 | .046 | .00092 |
| 126. | 3176.910 | .384 | .19E-05 | 0.00 | .80E-06 | -55.449 | .28E-05 | 96.941 | .291E+04 | 139.881 | 3173.887 | .255 | .00095 |
| 127. | 3177.398 | .622 | .19E-05 | 0.00 | .79E-06 | -53.402 | .28E-05 | 97.160 | .298E+04 | 137.040 | 3174.233 | .459 | .00100 |
| 128. | 3178.111 | .850 | .19E-05 | 0.00 | .79E-06 | -51.233 | .28E-05 | 97.369 | .306E+04 | 134.459 | 3174.772 | .655 | .00105 |
| 129. | 3179.039 | 1.062 | .19E-05 | 0.00 | .77E-06 | -48.928 | .29E-05 | 97.566 | .315E+04 | 132.160 | 3175.495 | .839 | .00111 |
| 130. | 3180.163 | 1.255 | .19E-05 | 0.00 | .76E-06 | -46.468 | .29E-05 | 97.749 | .324E+04 | 130.149 | 3176.390 | 1.007 | .00119 |
| 131. | 3181.463 | 1.424 | .20E-05 | 0.00 | .75E-06 | -43.832 | .29E-05 | 97.915 | .334E+04 | 128.424 | 3177.439 | 1.157 | .00126 |
| 132. | 3182.914 | 1.563 | .20E-05 | 0.00 | .73E-06 | -40.996 | .29E-05 | 98.062 | .345E+04 | 126.973 | 3178.622 | 1.283 | .00135 |
| 133. | 3184.485 | 1.669 | .20E-05 | 0.00 | .71E-06 | -37.929 | .29E-05 | 98.189 | .355E+04 | 125.780 | 3179.916 | 1.383 | .00143 |
| 134. | 3186.141 | 1.738 | .20E-05 | 0.00 | .69E-06 | -34.599 | .29E-05 | 98.294 | .366E+04 | 124.825 | 3181.291 | 1.452 | .00152 |
| 135. | 3187.845 | 1.765 | .20E-05 | 0.00 | .67E-06 | -30.969 | .29E-05 | 98.376 | .375E+04 | 124.086 | 3182.719 | 1.488 | .00161 |
| 136. | 3189.556 | 1.749 | .20E-05 | 0.00 | .65E-06 | -27.000 | .29E-05 | 98.433 | .384E+04 | 123.540 | 3184.166 | 1.488 | .00169 |
| 137. | 3191.230 | 1.687 | .20E-05 | 0.00 | .63E-06 | -22.655 | .29E-05 | 98.464 | .392E+04 | 123.165 | 3185.595 | 1.452 | .00177 |
| 138. | 3192.823 | 1.581 | .20E-05 | 0.00 | .60E-06 | -17.900 | .29E-05 | 98.470 | .398E+04 | 122.938 | 3186.972 | 1.378 | .00183 |
| 139. | 3194.292 | 1.431 | .20E-05 | 0.00 | .58E-06 | -12.717 | .30E-05 | 98.451 | .403E+04 | 122.838 | 3188.259 | 1.267 | .00189 |
| 140. | 3195.596 | 1.241 | .20E-05 | 0.00 | .56E-06 | -7.109 | .30E-05 | 98.407 | .407E+04 | 122.844 | 3189.422 | 1.122 | .00193 |
| 141. | 3196.697 | 1.016 | .21E-05 | 0.00 | .54E-06 | -1.110 | .30E-05 | 98.339 | .409E+04 | 122.935 | 3190.428 | .944 | .00196 |
| 142. | 3197.565 | .752 | .21E-05 | 0.00 | .53E-06 | 5.205 | .30E-05 | 98.248 | .409E+04 | 123.094 | 3191.249 | .740 | .00198 |
| 143. | 3198.175 | .487 | .21E-05 | 0.00 | .52E-06 | 11.720 | .30E-05 | 98.137 | .408E+04 | 123.301 | 3191.860 | .514 | .00197 |
| 144. | 3198.509 | .198 | .21E-05 | 0.00 | .52E-06 | 18.289 | .30E-05 | 98.007 | .405E+04 | 123.541 | 3192.244 | .273 | .00196 |
| 145. | 3198.559 | -.096 | .21E-05 | 0.00 | .52E-06 | 24.753 | .30E-05 | 97.860 | .401E+04 | 123.797 | 3192.387 | .022 | .00193 |
| 146. | 3198.323 | -.388 | .21E-05 | 0.00 | .52E-06 | 30.965 | .30E-05 | 97.698 | .396E+04 | 124.056 | 3192.285 | -.232 | .00189 |
| 147. | 3197.806 | -.671 | .21E-05 | 0.00 | .53E-06 | 36.807 | .30E-05 | 97.524 | .389E+04 | 124.305 | 3191.937 | -.483 | .00184 |
| 148. | 3197.021 | -.938 | .21E-05 | 0.00 | .54E-06 | 42.201 | .29E-05 | 97.338 | .381E+04 | 124.531 | 3191.349 | -.725 | .00177 |
| 149. | 3195.985 | -1.187 | .21E-05 | 0.00 | .56E-06 | 47.112 | .29E-05 | 97.144 | .373E+04 | 124.726 | 3190.532 | -.954 | .00171 |

Y-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3194.718 | -1.413 | .21E-05 | 0.00 | .57E-06 | 51.536 | .29E-05 | 96.942 | .364E+04 | 124.879 | 3189.500 | -1.166 | .00163 |
| 151. | 3193.243 | -1.614 | .20E-05 | 0.00 | .59E-06 | 55.493 | .29E-05 | 96.734 | .354E+04 | 124.984 | 3188.272 | -1.359 | .00156 |
| 152. | 3191.586 | -1.789 | .20E-05 | 0.00 | .61E-06 | 59.017 | .29E-05 | 96.521 | .344E+04 | 125.033 | 3186.866 | -1.531 | .00148 |
| 153. | 3189.772 | -1.938 | .20E-05 | 0.00 | .63E-06 | 62.149 | .29E-05 | 96.305 | .334E+04 | 125.021 | 3185.305 | -1.681 | .00140 |
| 154. | 3187.827 | -2.061 | .20E-05 | 0.00 | .64E-06 | 64.932 | .29E-05 | 96.085 | .324E+04 | 124.942 | 3183.611 | -1.807 | .00132 |
| 155. | 3185.776 | -2.158 | .20E-05 | 0.00 | .66E-06 | 67.407 | .29E-05 | 95.862 | .314E+04 | 124.791 | 3181.806 | -1.911 | .00125 |
| 156. | 3183.644 | -2.232 | .20E-05 | 0.00 | .67E-06 | 69.610 | .29E-05 | 95.638 | .304E+04 | 124.565 | 3179.912 | -1.993 | .00117 |
| 157. | 3181.453 | -2.282 | .20E-05 | 0.00 | .69E-06 | 71.578 | .29E-05 | 95.412 | .294E+04 | 124.259 | 3177.950 | -2.054 | .00110 |
| 158. | 3179.225 | -2.312 | .20E-05 | 0.00 | .70E-06 | 73.338 | .29E-05 | 95.185 | .284E+04 | 123.869 | 3175.940 | -2.094 | .00103 |
| 159. | 3176.980 | -2.321 | .20E-05 | 0.00 | .71E-06 | 74.919 | .29E-05 | 94.956 | .275E+04 | 123.392 | 3173.903 | -2.115 | .00097 |
| 160. | 3174.736 | -2.312 | .20E-05 | 0.00 | .73E-06 | 76.341 | .29E-05 | 94.727 | .265E+04 | 122.824 | 3171.855 | -2.117 | .00091 |
| 161. | 3172.511 | -2.286 | .20E-05 | 0.00 | .74E-06 | 77.627 | .28E-05 | 94.496 | .256E+04 | 122.162 | 3169.815 | -2.103 | .00085 |
| 162. | 3170.321 | -2.244 | .20E-05 | 0.00 | .75E-06 | 78.791 | .28E-05 | 94.265 | .248E+04 | 121.402 | 3167.796 | -2.074 | .00080 |
| 163. | 3168.179 | -2.188 | .20E-05 | 0.00 | .76E-06 | 79.851 | .28E-05 | 94.033 | .240E+04 | 120.541 | 3165.815 | -2.030 | .00075 |
| 164. | 3166.099 | -2.119 | .20E-05 | 0.00 | .77E-06 | 80.818 | .28E-05 | 93.801 | .232E+04 | 119.576 | 3163.884 | -1.972 | .00070 |
| 165. | 3164.093 | -2.038 | .20E-05 | 0.00 | .77E-06 | 81.704 | .28E-05 | 93.567 | .224E+04 | 118.504 | 3162.016 | -1.903 | .00066 |
| 166. | 3162.172 | -1.947 | .20E-05 | 0.00 | .78E-06 | 82.519 | .28E-05 | 93.333 | .217E+04 | 117.322 | 3160.221 | -1.822 | .00062 |
| 167. | 3160.344 | -1.845 | .20E-05 | 0.00 | .79E-06 | 83.271 | .28E-05 | 93.098 | .210E+04 | 116.028 | 3158.510 | -1.731 | .00058 |
| 168. | 3158.620 | -1.735 | .20E-05 | 0.00 | .79E-06 | 83.968 | .28E-05 | 92.863 | .204E+04 | 114.620 | 3156.891 | -1.631 | .00055 |
| 169. | 3157.007 | -1.617 | .20E-05 | 0.00 | .80E-06 | 84.618 | .28E-05 | 92.627 | .198E+04 | 113.098 | 3155.374 | -1.523 | .00052 |
| 170. | 3155.512 | -1.491 | .20E-05 | 0.00 | .80E-06 | 85.226 | .28E-05 | 92.390 | .193E+04 | 111.460 | 3153.965 | -1.407 | .00049 |
| 171. | 3154.142 | -1.359 | .19E-05 | 0.00 | .81E-06 | 85.797 | .28E-05 | 92.153 | .188E+04 | 109.710 | 3152.672 | -1.285 | .00047 |
| 172. | 3152.902 | -1.222 | .19E-05 | 0.00 | .81E-06 | 86.337 | .28E-05 | 91.915 | .184E+04 | 107.851 | 3151.499 | -1.156 | .00044 |
| 173. | 3151.796 | -1.080 | .19E-05 | 0.00 | .82E-06 | 86.850 | .28E-05 | 91.677 | .180E+04 | 105.885 | 3150.453 | -1.023 | .00043 |
| 174. | 3150.830 | -.933 | .19E-05 | 0.00 | .82E-06 | 87.341 | .28E-05 | 91.438 | .176E+04 | 103.822 | 3149.537 | -.885 | .00041 |
| 175. | 3150.006 | -.783 | .19E-05 | 0.00 | .82E-06 | 87.812 | .28E-05 | 91.199 | .173E+04 | 101.668 | 3148.756 | -.743 | .00040 |
| 176. | 3149.328 | -.630 | .19E-05 | 0.00 | .82E-06 | 88.268 | .28E-05 | 90.960 | .171E+04 | 99.436 | 3148.113 | -.598 | .00039 |
| 177. | 3148.798 | -.474 | .19E-05 | 0.00 | .82E-06 | 88.711 | .28E-05 | 90.720 | .169E+04 | 97.138 | 3147.610 | -.451 | .00038 |
| 178. | 3148.418 | -.317 | .19E-05 | 0.00 | .82E-06 | 89.146 | .28E-05 | 90.480 | .167E+04 | 94.788 | 3147.249 | -.302 | .00037 |
| 179. | 3148.190 | -.159 | .19E-05 | 0.00 | .83E-06 | 89.574 | .28E-05 | 90.240 | .167E+04 | 92.403 | 3147.032 | -.151 | .00037 |
| 180. | 3148.114 | 0.000 | .19E-05 | 0.00 | .83E-06 | 90.000 | .28E-05 | 90.000 | .166E+04 | 90.000 | 3146.960 | 0.000 | .00037 |

Z-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3204.739 | 0.000 | .18E-05 | 0.00 | .12E-05 | 90.000 | .24E-05 | 90.000 | .315E+04 | 90.000 | 3201.076 | 0.000 | .00114 |
| 1. | 3204.959 | .450 | .18E-05 | 0.00 | .12E-05 | 89.418 | .24E-05 | 89.497 | .316E+04 | 91.360 | 3201.279 | .417 | .00115 |
| 2. | 3205.618 | .899 | .18E-05 | 0.00 | .12E-05 | 88.836 | .24E-05 | 88.995 | .318E+04 | 92.695 | 3201.889 | .833 | .00116 |
| 3. | 3206.715 | 1.345 | .18E-05 | 0.00 | .12E-05 | 88.255 | .24E-05 | 88.495 | .321E+04 | 93.983 | 3202.903 | 1.246 | .00119 |
| 4. | 3208.247 | 1.788 | .18E-05 | 0.00 | .12E-05 | 87.677 | .24E-05 | 87.997 | .326E+04 | 95.204 | 3204.319 | 1.655 | .00122 |
| 5. | 3210.210 | 2.226 | .18E-05 | 0.00 | .12E-05 | 87.102 | .24E-05 | 87.502 | .332E+04 | 96.339 | 3206.133 | 2.058 | .00127 |
| 6. | 3212.601 | 2.653 | .19E-05 | 0.00 | .12E-05 | 86.531 | .24E-05 | 87.011 | .340E+04 | 97.375 | 3208.338 | 2.453 | .00133 |
| 7. | 3215.413 | 3.081 | .19E-05 | 0.00 | .12E-05 | 85.964 | .24E-05 | 86.525 | .349E+04 | 98.301 | 3210.928 | 2.839 | .00139 |
| 8. | 3218.640 | 3.495 | .18E-05 | 0.00 | .12E-05 | 85.403 | .24E-05 | 86.044 | .359E+04 | 99.111 | 3213.893 | 3.214 | .00147 |
| 9. | 3222.271 | 3.897 | .18E-05 | 0.00 | .12E-05 | 84.848 | .24E-05 | 85.570 | .370E+04 | 99.802 | 3217.224 | 3.576 | .00157 |
| 10. | 3226.297 | 4.285 | .19E-05 | 0.00 | .12E-05 | 84.302 | .24E-05 | 85.103 | .382E+04 | 100.373 | 3220.907 | 3.922 | .00167 |
| 11. | 3230.705 | 4.658 | .19E-05 | 0.00 | .12E-05 | 83.764 | .24E-05 | 84.644 | .396E+04 | 100.829 | 3224.927 | 4.250 | .00179 |
| 12. | 3235.479 | 5.011 | .19E-05 | 0.00 | .12E-05 | 83.236 | .24E-05 | 84.195 | .410E+04 | 101.173 | 3229.267 | 4.558 | .00192 |
| 13. | 3240.601 | 5.342 | .19E-05 | 0.00 | .11E-05 | 82.719 | .24E-05 | 83.757 | .426E+04 | 101.412 | 3233.905 | 4.840 | .00207 |
| 14. | 3246.049 | 5.648 | .19E-05 | 0.00 | .11E-05 | 82.216 | .25E-05 | 83.329 | .443E+04 | 101.555 | 3238.817 | 5.095 | .00223 |
| 15. | 3251.797 | 5.923 | .19E-05 | 0.00 | .11E-05 | 81.727 | .25E-05 | 82.915 | .460E+04 | 101.610 | 3243.974 | 5.316 | .00241 |
| 16. | 3257.814 | 6.162 | .19E-05 | 0.00 | .11E-05 | 81.254 | .25E-05 | 82.514 | .479E+04 | 101.586 | 3249.342 | 5.500 | .00260 |
| 17. | 3264.051 | 6.359 | .20E-05 | 0.00 | .10E-05 | 80.799 | .25E-05 | 82.129 | .499E+04 | 101.495 | 3254.881 | 5.640 | .00281 |
| 18. | 3270.495 | 6.506 | .20E-05 | 0.00 | .10E-05 | 80.364 | .25E-05 | 81.760 | .520E+04 | 101.345 | 3260.546 | 5.729 | .00304 |
| 19. | 3277.051 | 6.594 | .20E-05 | 0.00 | .96E-06 | 79.951 | .25E-05 | 81.409 | .541E+04 | 101.147 | 3266.280 | 5.760 | .00329 |
| 20. | 3283.694 | 6.611 | .20E-05 | 0.00 | .92E-06 | 79.567 | .25E-05 | 81.078 | .564E+04 | 100.912 | 3272.023 | 5.722 | .00355 |
| 21. | 3290.317 | 6.544 | .20E-05 | 0.00 | .87E-06 | 79.201 | .26E-05 | 80.769 | .587E+04 | 100.650 | 3277.700 | 5.608 | .00383 |
| 22. | 3296.835 | 6.378 | .21E-05 | 0.00 | .81E-06 | 78.867 | .26E-05 | 80.483 | .610E+04 | 100.371 | 3283.227 | 5.405 | .00413 |
| 23. | 3303.140 | 6.095 | .21E-05 | 0.00 | .75E-06 | 78.565 | .26E-05 | 80.222 | .633E+04 | 100.088 | 3288.510 | 5.103 | .00443 |
| 24. | 3309.101 | 5.677 | .21E-05 | 0.00 | .67E-06 | 78.297 | .27E-05 | 79.989 | .656E+04 | 99.810 | 3293.441 | 4.692 | .00473 |
| 25. | 3314.570 | 5.107 | .22E-05 | 0.00 | .58E-06 | 78.065 | .27E-05 | 79.785 | .678E+04 | 99.550 | 3297.906 | 4.166 | .00503 |
| 26. | 3319.385 | 4.372 | .22E-05 | 0.00 | .48E-06 | 77.872 | .27E-05 | 79.615 | .698E+04 | 99.317 | 3301.785 | 3.521 | .00530 |
| 27. | 3323.372 | 3.471 | .22E-05 | 0.00 | .38E-06 | 77.719 | .27E-05 | 79.479 | .715E+04 | 99.122 | 3304.958 | 2.762 | .00554 |
| 28. | 3326.368 | 2.416 | .23E-05 | 0.00 | .26E-06 | 77.608 | .28E-05 | 79.379 | .729E+04 | 98.975 | 3307.316 | 1.904 | .00573 |
| 29. | 3328.230 | 1.241 | .23E-05 | 0.00 | .13E-06 | 77.541 | .28E-05 | 79.319 | .737E+04 | 98.883 | 3308.771 | .972 | .00585 |
| 30. | 3328.852 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .28E-05 | 79.299 | .740E+04 | 98.852 | 3309.262 | 0.000 | .00589 |
| 31. | 3328.230 | -1.241 | .23E-05 | 0.00 | .13E-06 | -102.459 | .28E-05 | 79.319 | .737E+04 | 98.883 | 3308.771 | -.972 | .00585 |
| 32. | 3326.368 | -2.416 | .23E-05 | 0.00 | .26E-06 | -102.392 | .28E-05 | 79.379 | .729E+04 | 98.975 | 3307.316 | -1.904 | .00573 |
| 33. | 3323.372 | -3.471 | .22E-05 | 0.00 | .38E-06 | -102.281 | .27E-05 | 79.479 | .715E+04 | 99.122 | 3304.958 | -2.762 | .00554 |
| 34. | 3319.385 | -4.372 | .22E-05 | 0.00 | .48E-06 | -102.128 | .27E-05 | 79.615 | .698E+04 | 99.317 | 3301.785 | -3.521 | .00530 |
| 35. | 3314.570 | -5.107 | .22E-05 | 0.00 | .58E-06 | -101.935 | .27E-05 | 79.785 | .678E+04 | 99.550 | 3297.906 | -4.166 | .00503 |
| 36. | 3309.101 | -5.677 | .21E-05 | 0.00 | .67E-06 | -101.703 | .27E-05 | 79.989 | .656E+04 | 99.810 | 3293.441 | -4.692 | .00473 |
| 37. | 3303.140 | -6.095 | .21E-05 | 0.00 | .75E-06 | -101.435 | .26E-05 | 80.222 | .633E+04 | 100.088 | 3288.510 | -5.103 | .00443 |
| 38. | 3296.835 | -6.378 | .21E-05 | 0.00 | .81E-06 | -101.133 | .26E-05 | 80.483 | .610E+04 | 100.371 | 3283.227 | -5.405 | .00413 |
| 39. | 3290.317 | -6.544 | .20E-05 | 0.00 | .87E-06 | -100.799 | .26E-05 | 80.769 | .587E+04 | 100.650 | 3277.700 | -5.608 | .00383 |
| 40. | 3283.694 | -6.611 | .20E-05 | 0.00 | .92E-06 | -100.437 | .25E-05 | 81.078 | .564E+04 | 100.912 | 3272.023 | -5.722 | .00355 |
| 41. | 3277.051 | -6.594 | .20E-05 | 0.00 | .96E-06 | -100.049 | .25E-05 | 81.409 | .541E+04 | 101.147 | 3266.280 | -5.760 | .00329 |
| 42. | 3270.495 | -6.506 | .20E-05 | 0.00 | .10E-05 | -99.636 | .25E-05 | 81.760 | .520E+04 | 101.345 | 3260.546 | -5.729 | .00304 |
| 43. | 3264.051 | -6.359 | .20E-05 | 0.00 | .10E-05 | -99.201 | .25E-05 | 82.129 | .499E+04 | 101.495 | 3254.881 | -5.640 | .00281 |
| 44. | 3257.814 | -6.162 | .19E-05 | 0.00 | .11E-05 | -98.746 | .25E-05 | 82.514 | .479E+04 | 101.586 | 3249.342 | -5.500 | .00260 |
| 45. | 3251.797 | -5.923 | .19E-05 | 0.00 | .11E-05 | -98.273 | .25E-05 | 82.915 | .460E+04 | 101.610 | 3243.974 | -5.316 | .00241 |
| 46. | 3246.049 | -5.648 | .19E-05 | 0.00 | .11E-05 | -97.784 | .25E-05 | 83.329 | .443E+04 | 101.555 | 3238.817 | -5.095 | .00223 |
| 47. | 3240.601 | -5.342 | .19E-05 | 0.00 | .11E-05 | -97.281 | .24E-05 | 83.757 | .426E+04 | 101.412 | 3233.905 | -4.840 | .00207 |
| 48. | 3235.479 | -5.011 | .19E-05 | 0.00 | .12E-05 | -96.764 | .24E-05 | 84.195 | .410E+04 | 101.173 | 3229.267 | -4.558 | .00192 |
| 49. | 3230.705 | -4.658 | .19E-05 | 0.00 | .12E-05 | -96.236 | .24E-05 | 84.644 | .396E+04 | 100.829 | 3224.927 | -4.250 | .00179 |

Z-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3226.237 | -4.285 | .18E-05 | 0.00 | .12E-05 | -95.699 | .24E-05 | 85.103 | .382E+04 | 100.373 | 3220.907 | -3.922 | .00167 |
| 51. | 3222.271 | -3.897 | .18E-05 | 0.00 | .12E-05 | -95.152 | .24E-05 | 85.570 | .370E+04 | 99.802 | 3217.224 | -3.576 | .00157 |
| 52. | 3218.640 | -3.495 | .18E-05 | 0.00 | .12E-05 | -94.597 | .24E-05 | 86.044 | .359E+04 | 99.111 | 3213.893 | -3.214 | .00147 |
| 53. | 3215.413 | -3.081 | .18E-05 | 0.00 | .12E-05 | -94.036 | .24E-05 | 86.525 | .349E+04 | 98.301 | 3210.928 | -2.839 | .00139 |
| 54. | 3212.601 | -2.658 | .18E-05 | 0.00 | .12E-05 | -93.469 | .24E-05 | 87.011 | .340E+04 | 97.375 | 3208.338 | -2.453 | .00133 |
| 55. | 3210.210 | -2.226 | .18E-05 | 0.00 | .12E-05 | -92.898 | .24E-05 | 87.502 | .332E+04 | 96.339 | 3206.133 | -2.058 | .00127 |
| 56. | 3208.247 | -1.788 | .18E-05 | 0.00 | .12E-05 | -92.323 | .24E-05 | 87.997 | .326E+04 | 95.204 | 3204.319 | -1.655 | .00122 |
| 57. | 3206.715 | -1.346 | .18E-05 | 0.00 | .12E-05 | -91.745 | .24E-05 | 88.495 | .321E+04 | 93.983 | 3202.903 | -1.246 | .00119 |
| 58. | 3205.618 | -.899 | .18E-05 | 0.00 | .12E-05 | -91.164 | .24E-05 | 88.995 | .318E+04 | 92.695 | 3201.889 | -.833 | .00116 |
| 59. | 3204.959 | -.450 | .18E-05 | 0.00 | .12E-05 | -90.582 | .24E-05 | 89.497 | .316E+04 | 91.360 | 3201.279 | -.417 | .00115 |
| 60. | 3204.739 | 0.000 | .18E-05 | 0.00 | .12E-05 | -90.000 | .24E-05 | 90.000 | .315E+04 | 90.000 | 3201.076 | 0.000 | .00114 |
| 61. | 3204.959 | .450 | .18E-05 | 0.00 | .12E-05 | -89.418 | .24E-05 | 90.503 | .316E+04 | 88.640 | 3201.279 | .417 | .00115 |
| 62. | 3205.618 | .899 | .18E-05 | 0.00 | .12E-05 | -88.836 | .24E-05 | 91.005 | .318E+04 | 87.305 | 3201.889 | .833 | .00116 |
| 63. | 3206.715 | 1.346 | .18E-05 | 0.00 | .12E-05 | -88.255 | .24E-05 | 91.505 | .321E+04 | 86.017 | 3202.903 | 1.246 | .00119 |
| 64. | 3208.247 | 1.788 | .18E-05 | 0.00 | .12E-05 | -87.677 | .24E-05 | 92.003 | .326E+04 | 84.796 | 3204.319 | 1.655 | .00122 |
| 65. | 3210.210 | 2.226 | .18E-05 | 0.00 | .12E-05 | -87.102 | .24E-05 | 92.498 | .332E+04 | 83.661 | 3206.133 | 2.058 | .00127 |
| 66. | 3212.601 | 2.658 | .18E-05 | 0.00 | .12E-05 | -86.531 | .24E-05 | 92.989 | .340E+04 | 82.625 | 3208.338 | 2.453 | .00133 |
| 67. | 3215.413 | 3.081 | .18E-05 | 0.00 | .12E-05 | -85.964 | .24E-05 | 93.475 | .349E+04 | 81.699 | 3210.928 | 2.839 | .00139 |
| 68. | 3218.640 | 3.495 | .18E-05 | 0.00 | .12E-05 | -85.403 | .24E-05 | 93.956 | .359E+04 | 80.889 | 3213.893 | 3.214 | .00147 |
| 69. | 3222.271 | 3.897 | .18E-05 | 0.00 | .12E-05 | -84.848 | .24E-05 | 94.430 | .370E+04 | 80.198 | 3217.224 | 3.576 | .00157 |
| 70. | 3226.297 | 4.285 | .18E-05 | 0.00 | .12E-05 | -84.302 | .24E-05 | 94.897 | .382E+04 | 79.627 | 3220.907 | 3.922 | .00167 |
| 71. | 3230.705 | 4.658 | .19E-05 | 0.00 | .12E-05 | -83.764 | .24E-05 | 95.356 | .396E+04 | 79.171 | 3224.927 | 4.250 | .00179 |
| 72. | 3235.479 | 5.011 | .19E-05 | 0.00 | .12E-05 | -83.236 | .24E-05 | 95.805 | .410E+04 | 78.827 | 3229.267 | 4.558 | .00192 |
| 73. | 3240.601 | 5.342 | .19E-05 | 0.00 | .11E-05 | -82.719 | .24E-05 | 96.243 | .426E+04 | 78.588 | 3233.905 | 4.840 | .00207 |
| 74. | 3246.049 | 5.648 | .19E-05 | 0.00 | .11E-05 | -82.215 | .25E-05 | 96.671 | .443E+04 | 78.445 | 3238.817 | 5.095 | .00223 |
| 75. | 3251.797 | 5.923 | .19E-05 | 0.00 | .11E-05 | -81.727 | .25E-05 | 97.085 | .460E+04 | 78.390 | 3243.974 | 5.316 | .00241 |
| 76. | 3257.814 | 6.162 | .19E-05 | 0.00 | .11E-05 | -81.254 | .25E-05 | 97.486 | .479E+04 | 78.414 | 3249.342 | 5.500 | .00260 |
| 77. | 3264.051 | 6.359 | .20E-05 | 0.00 | .10E-05 | -80.799 | .25E-05 | 97.871 | .499E+04 | 78.505 | 3254.881 | 5.640 | .00281 |
| 78. | 3270.495 | 6.506 | .20E-05 | 0.00 | .10E-05 | -80.364 | .25E-05 | 98.240 | .520E+04 | 78.655 | 3260.546 | 5.729 | .00304 |
| 79. | 3277.051 | 6.594 | .20E-05 | 0.00 | .96E-06 | -79.951 | .25E-05 | 98.591 | .541E+04 | 78.853 | 3266.280 | 5.760 | .00329 |
| 80. | 3283.694 | 6.611 | .20E-05 | 0.00 | .92E-06 | -79.563 | .25E-05 | 98.922 | .564E+04 | 79.088 | 3272.023 | 5.722 | .00355 |
| 81. | 3290.317 | 6.544 | .20E-05 | 0.00 | .87E-06 | -79.201 | .26E-05 | 99.231 | .587E+04 | 79.350 | 3277.700 | 5.608 | .00383 |
| 82. | 3296.835 | 6.378 | .21E-05 | 0.00 | .81E-06 | -78.867 | .26E-05 | 99.517 | .610E+04 | 79.629 | 3283.227 | 5.405 | .00413 |
| 83. | 3303.140 | 6.095 | .21E-05 | 0.00 | .75E-06 | -78.565 | .26E-05 | 99.778 | .633E+04 | 79.912 | 3288.510 | 5.103 | .00443 |
| 84. | 3309.101 | 5.677 | .21E-05 | 0.00 | .67E-06 | -78.297 | .27E-05 | 100.011 | .656E+04 | 80.190 | 3293.441 | 4.692 | .00473 |
| 85. | 3314.570 | 5.107 | .22E-05 | 0.00 | .58E-06 | -78.065 | .27E-05 | 100.215 | .678E+04 | 80.450 | 3297.906 | 4.166 | .00503 |
| 86. | 3319.395 | 4.372 | .22E-05 | 0.00 | .48E-06 | -77.872 | .27E-05 | 100.385 | .698E+04 | 80.683 | 3301.785 | 3.521 | .00530 |
| 87. | 3323.372 | 3.471 | .22E-05 | 0.00 | .38E-06 | -77.719 | .27E-05 | 100.521 | .715E+04 | 80.878 | 3304.958 | 2.762 | .00554 |
| 88. | 3326.368 | 2.416 | .23E-05 | 0.00 | .26E-06 | -77.608 | .28E-05 | 100.621 | .729E+04 | 81.025 | 3307.316 | 1.904 | .00573 |
| 89. | 3328.230 | 1.241 | .23E-05 | 0.00 | .13E-06 | -77.541 | .28E-05 | 100.681 | .737E+04 | 81.117 | 3308.771 | .972 | .00585 |
| 90. | 3328.862 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .28E-05 | 100.701 | .740E+04 | 81.148 | 3309.262 | 0.000 | .00589 |
| 91. | 3328.230 | -1.241 | .23E-05 | 0.00 | .13E-06 | 102.459 | .28E-05 | 100.681 | .737E+04 | 81.117 | 3308.771 | -.972 | .00585 |
| 92. | 3326.368 | -2.416 | .23E-05 | 0.00 | .26E-06 | 102.392 | .28E-05 | 100.621 | .729E+04 | 81.025 | 3307.316 | -1.904 | .00573 |
| 93. | 3323.372 | -3.471 | .22E-05 | 0.00 | .38E-06 | 102.281 | .27E-05 | 100.521 | .715E+04 | 80.878 | 3304.958 | -2.762 | .00554 |
| 94. | 3319.395 | -4.372 | .22E-05 | 0.00 | .48E-06 | 102.128 | .27E-05 | 100.385 | .698E+04 | 80.683 | 3301.785 | -3.521 | .00530 |
| 95. | 3314.570 | -5.107 | .22E-05 | 0.00 | .58E-06 | 101.935 | .27E-05 | 100.215 | .678E+04 | 80.450 | 3297.906 | -4.166 | .00503 |
| 96. | 3309.101 | -5.677 | .21E-05 | 0.00 | .67E-06 | 101.703 | .27E-05 | 100.011 | .656E+04 | 80.190 | 3293.441 | -4.692 | .00473 |
| 97. | 3303.140 | -6.095 | .21E-05 | 0.00 | .75E-06 | 101.435 | .26E-05 | 99.778 | .633E+04 | 79.912 | 3288.510 | -5.103 | .00443 |
| 98. | 3296.835 | -6.378 | .21E-05 | 0.00 | .81E-06 | 101.133 | .26E-05 | 99.517 | .610E+04 | 79.629 | 3283.227 | -5.405 | .00413 |
| 99. | 3290.317 | -6.544 | .20E-05 | 0.00 | .87E-06 | 100.799 | .26E-05 | 99.231 | .587E+04 | 79.350 | 3277.700 | -5.608 | .00383 |

Z-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3283.634 | -6.611 | .20E-05 | 0.00 | .92E-06 | 100.437 | .25E-05 | 98.922 | .564E+04 | 79.089 | 3272.023 | -5.722 | .00355 |
| 101. | 3277.061 | -6.594 | .20E-05 | 0.00 | .96E-06 | 100.049 | .25E-05 | 98.591 | .541E+04 | 78.853 | 3266.280 | -5.760 | .00329 |
| 102. | 3270.495 | -6.506 | .20E-05 | 0.00 | .10E-05 | 99.636 | .25E-05 | 98.240 | .520E+04 | 78.655 | 3260.546 | -5.729 | .00304 |
| 103. | 3264.061 | -6.359 | .20E-05 | 0.00 | .10E-05 | 99.201 | .25E-05 | 97.871 | .499E+04 | 78.505 | 3254.881 | -5.640 | .00281 |
| 104. | 3257.814 | -6.162 | .19E-05 | 0.00 | .11E-05 | 98.746 | .25E-05 | 97.486 | .479E+04 | 78.414 | 3249.342 | -5.500 | .00260 |
| 105. | 3251.797 | -5.923 | .19E-05 | 0.00 | .11E-05 | 98.273 | .25E-05 | 97.085 | .460E+04 | 78.390 | 3243.974 | -5.316 | .00241 |
| 106. | 3246.049 | -5.648 | .19E-05 | 0.00 | .11E-05 | 97.784 | .25E-05 | 96.671 | .443E+04 | 78.445 | 3238.817 | -5.095 | .00223 |
| 107. | 3240.601 | -5.342 | .19E-05 | 0.00 | .11E-05 | 97.281 | .24E-05 | 96.243 | .426E+04 | 78.583 | 3233.905 | -4.840 | .00207 |
| 108. | 3235.479 | -5.011 | .19E-05 | 0.00 | .12E-05 | 96.764 | .24E-05 | 95.805 | .410E+04 | 78.827 | 3229.267 | -4.558 | .00192 |
| 109. | 3230.705 | -4.658 | .19E-05 | 0.00 | .12E-05 | 96.236 | .24E-05 | 95.356 | .396E+04 | 79.171 | 3224.927 | -4.250 | .00179 |
| 110. | 3226.297 | -4.285 | .18E-05 | 0.00 | .12E-05 | 95.698 | .24E-05 | 94.897 | .382E+04 | 79.627 | 3220.907 | -3.922 | .00167 |
| 111. | 3222.271 | -3.897 | .18E-05 | 0.00 | .12E-05 | 95.152 | .24E-05 | 94.430 | .370E+04 | 80.198 | 3217.224 | -3.576 | .00157 |
| 112. | 3218.640 | -3.495 | .18E-05 | 0.00 | .12E-05 | 94.597 | .24E-05 | 93.956 | .359E+04 | 80.889 | 3213.893 | -3.214 | .00147 |
| 113. | 3215.413 | -3.081 | .18E-05 | 0.00 | .12E-05 | 94.036 | .24E-05 | 93.475 | .349E+04 | 81.699 | 3210.928 | -2.839 | .00139 |
| 114. | 3212.601 | -2.658 | .18E-05 | 0.00 | .12E-05 | 93.469 | .24E-05 | 92.989 | .340E+04 | 82.625 | 3208.338 | -2.453 | .00133 |
| 115. | 3210.210 | -2.226 | .18E-05 | 0.00 | .12E-05 | 92.898 | .24E-05 | 92.498 | .332E+04 | 83.661 | 3206.133 | -2.058 | .00127 |
| 116. | 3208.247 | -1.788 | .18E-05 | 0.00 | .12E-05 | 92.323 | .24E-05 | 92.003 | .326E+04 | 84.796 | 3204.319 | -1.655 | .00122 |
| 117. | 3206.715 | -1.346 | .18E-05 | 0.00 | .12E-05 | 91.745 | .24E-05 | 91.505 | .321E+04 | 86.017 | 3202.903 | -1.246 | .00119 |
| 118. | 3205.618 | -.899 | .18E-05 | 0.00 | .12E-05 | 91.164 | .24E-05 | 91.005 | .318E+04 | 87.305 | 3201.889 | -.833 | .00116 |
| 119. | 3204.959 | -.450 | .18E-05 | 0.00 | .12E-05 | 90.582 | .24E-05 | 90.503 | .316E+04 | 88.640 | 3201.279 | -.417 | .00115 |
| 120. | 3204.739 | 0.000 | .18E-05 | 0.00 | .12E-05 | 90.000 | .24E-05 | 90.000 | .315E+04 | 90.000 | 3201.076 | 0.000 | .00114 |
| 121. | 3204.959 | .450 | .18E-05 | 0.00 | .12E-05 | 89.418 | .24E-05 | 89.497 | .316E+04 | 91.360 | 3201.279 | .417 | .00115 |
| 122. | 3205.618 | .899 | .18E-05 | 0.00 | .12E-05 | 88.836 | .24E-05 | 88.995 | .318E+04 | 92.695 | 3201.889 | .833 | .00116 |
| 123. | 3206.715 | 1.346 | .18E-05 | 0.00 | .12E-05 | 88.255 | .24E-05 | 88.495 | .321E+04 | 93.983 | 3202.903 | 1.246 | .00119 |
| 124. | 3208.247 | 1.788 | .18E-05 | 0.00 | .12E-05 | 87.677 | .24E-05 | 87.997 | .326E+04 | 95.204 | 3204.319 | 1.655 | .00122 |
| 125. | 3210.210 | 2.226 | .18E-05 | 0.00 | .12E-05 | 87.102 | .24E-05 | 87.502 | .332E+04 | 96.339 | 3206.133 | 2.058 | .00127 |
| 126. | 3212.601 | 2.658 | .18E-05 | 0.00 | .12E-05 | 86.531 | .24E-05 | 87.011 | .340E+04 | 97.375 | 3208.338 | 2.453 | .00133 |
| 127. | 3215.413 | 3.081 | .18E-05 | 0.00 | .12E-05 | 85.964 | .24E-05 | 86.525 | .349E+04 | 98.301 | 3210.928 | 2.839 | .00139 |
| 128. | 3218.640 | 3.495 | .18E-05 | 0.00 | .12E-05 | 85.403 | .24E-05 | 86.044 | .359E+04 | 99.111 | 3213.893 | 3.214 | .00147 |
| 129. | 3222.271 | 3.897 | .18E-05 | 0.00 | .12E-05 | 84.848 | .24E-05 | 85.570 | .370E+04 | 99.802 | 3217.224 | 3.576 | .00157 |
| 130. | 3226.297 | 4.285 | .18E-05 | 0.00 | .12E-05 | 84.302 | .24E-05 | 85.103 | .382E+04 | 100.373 | 3220.907 | 3.922 | .00167 |
| 131. | 3230.705 | 4.658 | .19E-05 | 0.00 | .12E-05 | 83.764 | .24E-05 | 84.644 | .396E+04 | 100.829 | 3224.927 | 4.250 | .00179 |
| 132. | 3235.479 | 5.011 | .19E-05 | 0.00 | .12E-05 | 83.236 | .24E-05 | 84.195 | .410E+04 | 101.173 | 3229.267 | 4.558 | .00192 |
| 133. | 3240.601 | 5.342 | .19E-05 | 0.00 | .11E-05 | 82.719 | .24E-05 | 83.757 | .426E+04 | 101.412 | 3233.905 | 4.840 | .00207 |
| 134. | 3246.049 | 5.648 | .19E-05 | 0.00 | .11E-05 | 82.216 | .25E-05 | 83.329 | .443E+04 | 101.555 | 3238.817 | 5.095 | .00223 |
| 135. | 3251.797 | 5.923 | .19E-05 | 0.00 | .11E-05 | 81.727 | .25E-05 | 82.915 | .460E+04 | 101.610 | 3243.974 | 5.316 | .00241 |
| 136. | 3257.814 | 6.162 | .19E-05 | 0.00 | .11E-05 | 81.254 | .25E-05 | 82.514 | .479E+04 | 101.586 | 3249.342 | 5.500 | .00260 |
| 137. | 3264.061 | 6.359 | .20E-05 | 0.00 | .10E-05 | 80.799 | .25E-05 | 82.129 | .499E+04 | 101.495 | 3254.881 | 5.640 | .00281 |
| 138. | 3270.495 | 6.506 | .20E-05 | 0.00 | .10E-05 | 80.364 | .25E-05 | 81.760 | .520E+04 | 101.345 | 3260.546 | 5.729 | .00304 |
| 139. | 3277.061 | 6.594 | .20E-05 | 0.00 | .96E-06 | 79.951 | .25E-05 | 81.409 | .541E+04 | 101.147 | 3266.280 | 5.760 | .00329 |
| 140. | 3283.634 | 6.611 | .20E-05 | 0.00 | .92E-06 | 79.563 | .25E-05 | 81.078 | .564E+04 | 100.912 | 3272.023 | 5.722 | .00355 |
| 141. | 3290.317 | 6.544 | .20E-05 | 0.00 | .87E-06 | 79.201 | .26E-05 | 80.769 | .587E+04 | 100.650 | 3277.700 | 5.608 | .00383 |
| 142. | 3296.835 | 6.378 | .21E-05 | 0.00 | .81E-06 | 78.867 | .26E-05 | 80.483 | .610E+04 | 100.371 | 3283.227 | 5.405 | .00413 |
| 143. | 3303.140 | 6.095 | .21E-05 | 0.00 | .75E-06 | 78.565 | .26E-05 | 80.222 | .633E+04 | 100.088 | 3288.510 | 5.103 | .00443 |
| 144. | 3309.101 | 5.677 | .21E-05 | 0.00 | .67E-06 | 78.297 | .27E-05 | 79.989 | .656E+04 | 99.810 | 3293.441 | 4.692 | .00473 |
| 145. | 3314.570 | 5.107 | .22E-05 | 0.00 | .58E-06 | 78.065 | .27E-05 | 79.785 | .678E+04 | 99.550 | 3297.906 | 4.166 | .00503 |
| 146. | 3319.395 | 4.372 | .22E-05 | 0.00 | .48E-06 | 77.872 | .27E-05 | 79.615 | .698E+04 | 99.317 | 3301.785 | 3.521 | .00530 |
| 147. | 3323.372 | 3.471 | .22E-05 | 0.00 | .38E-06 | 77.719 | .27E-05 | 79.479 | .715E+04 | 99.122 | 3304.958 | 2.762 | .00554 |
| 148. | 3326.358 | 2.416 | .23E-05 | 0.00 | .26E-06 | 77.608 | .28E-05 | 79.379 | .729E+04 | 98.975 | 3307.316 | 1.904 | .00573 |
| 149. | 3328.230 | 1.241 | .23E-05 | 0.00 | .13E-06 | 77.541 | .28E-05 | 79.319 | .737E+04 | 98.883 | 3308.771 | .972 | .00585 |

Z-CUT LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3328.862 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .28E-05 | 79.299 | .740E+04 | 98.852 | 3309.262 | 0.000 | .00589 |
| 151. | 3328.230 | -1.241 | .23E-05 | 0.00 | .13E-06 | -102.459 | .28E-05 | 79.319 | .737E+04 | 98.883 | 3308.771 | -.972 | .00585 |
| 152. | 3326.368 | -2.416 | .23E-05 | 0.00 | .26E-06 | -102.392 | .28E-05 | 79.379 | .729E+04 | 98.975 | 3307.316 | -1.904 | .00573 |
| 153. | 3323.372 | -3.471 | .22E-05 | 0.00 | .38E-06 | -102.281 | .27E-05 | 79.479 | .715E+04 | 99.122 | 3304.958 | -2.762 | .00554 |
| 154. | 3319.385 | -4.372 | .22E-05 | 0.00 | .48E-06 | -102.128 | .27E-05 | 79.615 | .698E+04 | 99.317 | 3301.785 | -3.521 | .00530 |
| 155. | 3314.570 | -5.107 | .22E-05 | 0.00 | .58E-06 | -101.935 | .27E-05 | 79.785 | .678E+04 | 99.550 | 3297.906 | -4.166 | .00503 |
| 156. | 3309.101 | -5.677 | .21E-05 | 0.00 | .67E-06 | -101.703 | .27E-05 | 79.989 | .656E+04 | 99.810 | 3293.441 | -4.692 | .00473 |
| 157. | 3303.140 | -6.095 | .21E-05 | 0.00 | .75E-06 | -101.435 | .26E-05 | 80.222 | .633E+04 | 100.088 | 3288.510 | -5.103 | .00443 |
| 158. | 3296.835 | -6.378 | .21E-05 | 0.00 | .81E-06 | -101.133 | .26E-05 | 80.483 | .610E+04 | 100.371 | 3283.227 | -5.405 | .00413 |
| 159. | 3290.317 | -6.544 | .20E-05 | 0.00 | .87E-06 | -100.799 | .26E-05 | 80.769 | .587E+04 | 100.650 | 3277.700 | -5.608 | .00383 |
| 160. | 3283.634 | -6.611 | .20E-05 | 0.00 | .92E-06 | -100.437 | .25E-05 | 81.078 | .564E+04 | 100.912 | 3272.023 | -5.722 | .00355 |
| 161. | 3277.061 | -6.594 | .20E-05 | 0.00 | .96E-06 | -100.049 | .25E-05 | 81.409 | .541E+04 | 101.147 | 3266.280 | -5.760 | .00329 |
| 162. | 3270.435 | -6.506 | .20E-05 | 0.00 | .10E-05 | -99.636 | .25E-05 | 81.760 | .520E+04 | 101.345 | 3260.546 | -5.729 | .00304 |
| 163. | 3264.061 | -6.359 | .20E-05 | 0.00 | .10E-05 | -99.201 | .25E-05 | 82.129 | .499E+04 | 101.495 | 3254.881 | -5.640 | .00281 |
| 164. | 3257.814 | -6.162 | .19E-05 | 0.00 | .11E-05 | -98.746 | .25E-05 | 82.514 | .479E+04 | 101.586 | 3249.342 | -5.500 | .00260 |
| 165. | 3251.797 | -5.923 | .19E-05 | 0.00 | .11E-05 | -98.273 | .25E-05 | 82.915 | .460E+04 | 101.610 | 3243.974 | -5.316 | .00241 |
| 166. | 3246.049 | -5.648 | .19E-05 | 0.00 | .11E-05 | -97.784 | .25E-05 | 83.329 | .443E+04 | 101.555 | 3238.817 | -5.095 | .00223 |
| 167. | 3240.601 | -5.342 | .19E-05 | 0.00 | .11E-05 | -97.281 | .24E-05 | 83.757 | .426E+04 | 101.412 | 3233.905 | -4.840 | .00207 |
| 168. | 3235.479 | -5.011 | .19E-05 | 0.00 | .12E-05 | -96.764 | .24E-05 | 84.195 | .410E+04 | 101.173 | 3229.267 | -4.558 | .00192 |
| 169. | 3230.705 | -4.658 | .19E-05 | 0.00 | .12E-05 | -96.236 | .24E-05 | 84.644 | .396E+04 | 100.829 | 3224.927 | -4.250 | .00179 |
| 170. | 3226.297 | -4.285 | .18E-05 | 0.00 | .12E-05 | -95.698 | .24E-05 | 85.103 | .382E+04 | 100.373 | 3220.907 | -3.922 | .00167 |
| 171. | 3222.271 | -3.897 | .18E-05 | 0.00 | .12E-05 | -95.152 | .24E-05 | 85.570 | .370E+04 | 99.802 | 3217.224 | -3.576 | .00157 |
| 172. | 3218.640 | -3.495 | .18E-05 | 0.00 | .12E-05 | -94.597 | .24E-05 | 86.044 | .359E+04 | 99.111 | 3213.893 | -3.214 | .00147 |
| 173. | 3215.413 | -3.081 | .18E-05 | 0.00 | .12E-05 | -94.036 | .24E-05 | 86.525 | .349E+04 | 98.301 | 3210.928 | -2.839 | .00139 |
| 174. | 3212.601 | -2.659 | .18E-05 | 0.00 | .12E-05 | -93.469 | .24E-05 | 87.011 | .340E+04 | 97.375 | 3208.338 | -2.453 | .00133 |
| 175. | 3210.210 | -2.226 | .18E-05 | 0.00 | .12E-05 | -92.898 | .24E-05 | 87.502 | .332E+04 | 96.339 | 3206.133 | -2.058 | .00127 |
| 176. | 3208.247 | -1.788 | .18E-05 | 0.00 | .12E-05 | -92.323 | .24E-05 | 87.997 | .326E+04 | 95.204 | 3204.319 | -1.655 | .00122 |
| 177. | 3206.715 | -1.346 | .18E-05 | 0.00 | .12E-05 | -91.745 | .24E-05 | 88.495 | .321E+04 | 93.983 | 3202.903 | -1.246 | .00119 |
| 178. | 3205.618 | -.899 | .18E-05 | 0.00 | .12E-05 | -91.164 | .24E-05 | 88.995 | .318E+04 | 92.695 | 3201.889 | -.833 | .00116 |
| 179. | 3204.959 | -.450 | .18E-05 | 0.00 | .12E-05 | -90.582 | .24E-05 | 89.497 | .316E+04 | 91.360 | 3201.279 | -.417 | .00115 |
| 180. | 3204.739 | 0.000 | .18E-05 | 0.00 | .12E-05 | -90.000 | .24E-05 | 90.000 | .315E+04 | 90.000 | 3201.076 | 0.000 | .00114 |

Y-AXIS BOULE  LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZPO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3328.862 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .28E-05 | 100.701 | .740E+04 | 81.148 | 3309.262 | 0.000 | .00589 |
| 1. | 3328.743 | .556 | .23E-05 | 0.00 | .44E-07 | -75.925 | .28E-05 | 100.700 | .740E+04 | 81.117 | 3309.166 | .440 | .00588 |
| 2. | 3328.389 | 1.105 | .23E-05 | 0.00 | .88E-07 | -75.847 | .28E-05 | 100.698 | .738E+04 | 81.023 | 3308.879 | .875 | .00586 |
| 3. | 3327.803 | 1.639 | .23E-05 | 0.00 | .13E-06 | -75.987 | .28E-05 | 100.695 | .736E+04 | 80.867 | 3308.404 | 1.301 | .00583 |
| 4. | 3326.993 | 2.152 | .23E-05 | 0.00 | .17E-06 | -75.935 | .28E-05 | 100.690 | .733E+04 | 80.651 | 3307.745 | 1.714 | .00579 |
| 5. | 3325.970 | 2.638 | .23E-05 | 0.00 | .21E-06 | -76.002 | .28E-05 | 100.684 | .728E+04 | 80.376 | 3306.910 | 2.109 | .00573 |
| 6. | 3324.746 | 3.093 | .23E-05 | 0.00 | .25E-06 | -76.085 | .28E-05 | 100.676 | .723E+04 | 80.044 | 3305.907 | 2.484 | .00567 |
| 7. | 3323.335 | 3.514 | .22E-05 | 0.00 | .29E-06 | -76.183 | .27E-05 | 100.667 | .718E+04 | 79.657 | 3304.744 | 2.837 | .00559 |
| 8. | 3321.751 | 3.899 | .22E-05 | 0.00 | .32E-06 | -76.298 | .27E-05 | 100.657 | .712E+04 | 79.217 | 3303.432 | 3.164 | .00551 |
| 9. | 3320.011 | 4.246 | .22E-05 | 0.00 | .36E-06 | -76.430 | .27E-05 | 100.645 | .705E+04 | 78.728 | 3301.983 | 3.465 | .00543 |
| 10. | 3318.130 | 4.555 | .22E-05 | 0.00 | .39E-06 | -76.580 | .27E-05 | 100.632 | .699E+04 | 78.192 | 3300.406 | 3.740 | .00534 |
| 11. | 3316.124 | 4.828 | .22E-05 | 0.00 | .42E-06 | -76.747 | .27E-05 | 100.617 | .692E+04 | 77.611 | 3298.715 | 3.987 | .00525 |
| 12. | 3314.009 | 5.064 | .22E-05 | 0.00 | .44E-06 | -76.933 | .27E-05 | 100.601 | .684E+04 | 76.989 | 3296.921 | 4.207 | .00516 |
| 13. | 3311.799 | 5.266 | .22E-05 | 0.00 | .47E-06 | -77.137 | .27E-05 | 100.584 | .677E+04 | 76.328 | 3295.034 | 4.401 | .00506 |
| 14. | 3309.509 | 5.435 | .22E-05 | 0.00 | .49E-06 | -77.361 | .27E-05 | 100.565 | .670E+04 | 75.630 | 3293.067 | 4.569 | .00497 |
| 15. | 3307.152 | 5.574 | .22E-05 | 0.00 | .51E-06 | -77.604 | .27E-05 | 100.544 | .662E+04 | 74.898 | 3291.031 | 4.712 | .00487 |
| 16. | 3304.739 | 5.684 | .22E-05 | 0.00 | .53E-06 | -77.868 | .27E-05 | 100.523 | .655E+04 | 74.134 | 3288.934 | 4.832 | .00478 |
| 17. | 3302.283 | 5.769 | .22E-05 | 0.00 | .54E-06 | -78.153 | .27E-05 | 100.499 | .648E+04 | 73.340 | 3286.788 | 4.929 | .00469 |
| 18. | 3299.793 | 5.829 | .22E-05 | 0.00 | .56E-06 | -78.459 | .27E-05 | 100.475 | .641E+04 | 72.520 | 3284.600 | 5.006 | .00460 |
| 19. | 3297.279 | 5.866 | .21E-05 | 0.00 | .57E-06 | -78.787 | .27E-05 | 100.448 | .634E+04 | 71.677 | 3282.380 | 5.063 | .00452 |
| 20. | 3294.749 | 5.884 | .21E-05 | 0.00 | .59E-06 | -79.137 | .27E-05 | 100.421 | .627E+04 | 70.803 | 3280.134 | 5.102 | .00444 |
| 21. | 3292.210 | 5.883 | .21E-05 | 0.00 | .60E-06 | -79.511 | .27E-05 | 100.391 | .620E+04 | 69.910 | 3277.871 | 5.123 | .00436 |
| 22. | 3289.670 | 5.865 | .21E-05 | 0.00 | .61E-06 | -79.908 | .27E-05 | 100.360 | .614E+04 | 69.998 | 3275.597 | 5.129 | .00428 |
| 23. | 3287.134 | 5.831 | .21E-05 | 0.00 | .62E-06 | -80.329 | .27E-05 | 100.327 | .607E+04 | 69.065 | 3273.317 | 5.120 | .00420 |
| 24. | 3284.608 | 5.783 | .21E-05 | 0.00 | .62E-06 | -80.775 | .27E-05 | 100.292 | .601E+04 | 67.115 | 3271.037 | 5.097 | .00413 |
| 25. | 3282.096 | 5.723 | .21E-05 | 0.00 | .63E-06 | -81.247 | .27E-05 | 100.256 | .596E+04 | 66.149 | 3268.762 | 5.062 | .00406 |
| 26. | 3279.602 | 5.650 | .21E-05 | 0.00 | .63E-06 | -81.746 | .27E-05 | 100.217 | .590E+04 | 65.166 | 3266.496 | 5.015 | .00400 |
| 27. | 3277.130 | 5.567 | .21E-05 | 0.00 | .64E-06 | -82.271 | .27E-05 | 100.177 | .584E+04 | 64.170 | 3264.243 | 4.957 | .00393 |
| 28. | 3274.683 | 5.474 | .21E-05 | 0.00 | .64E-06 | -82.825 | .27E-05 | 100.135 | .579E+04 | 63.159 | 3262.005 | 4.889 | .00387 |
| 29. | 3272.263 | 5.371 | .21E-05 | 0.00 | .65E-06 | -83.407 | .27E-05 | 100.090 | .574E+04 | 62.136 | 3259.787 | 4.812 | .00381 |
| 30. | 3269.873 | 5.260 | .21E-05 | 0.00 | .65E-06 | -84.019 | .27E-05 | 100.044 | .569E+04 | 61.101 | 3257.591 | 4.726 | .00376 |
| 31. | 3267.514 | 5.142 | .21E-05 | 0.00 | .65E-06 | -84.662 | .27E-05 | 99.995 | .564E+04 | 60.054 | 3255.418 | 4.632 | .00370 |
| 32. | 3265.188 | 5.016 | .21E-05 | 0.00 | .65E-06 | -85.337 | .27E-05 | 99.944 | .559E+04 | 58.997 | 3253.271 | 4.530 | .00365 |
| 33. | 3262.895 | 4.884 | .21E-05 | 0.00 | .65E-06 | -86.044 | .27E-05 | 99.890 | .554E+04 | 57.930 | 3251.151 | 4.422 | .00360 |
| 34. | 3260.637 | 4.745 | .21E-05 | 0.00 | .65E-06 | -86.785 | .27E-05 | 99.834 | .550E+04 | 56.854 | 3249.059 | 4.307 | .00355 |
| 35. | 3258.415 | 4.601 | .21E-05 | 0.00 | .65E-06 | -87.561 | .27E-05 | 99.774 | .545E+04 | 55.769 | 3246.997 | 4.186 | .00350 |
| 36. | 3256.228 | 4.451 | .21E-05 | 0.00 | .65E-06 | -88.373 | .27E-05 | 99.712 | .541E+04 | 54.676 | 3244.964 | 4.059 | .00346 |
| 37. | 3254.076 | 4.297 | .21E-05 | 0.00 | .65E-06 | -89.222 | .27E-05 | 99.647 | .537E+04 | 53.576 | 3242.962 | 3.927 | .00342 |
| 38. | 3251.960 | 4.138 | .21E-05 | 0.00 | .64E-06 | -90.109 | .27E-05 | 99.579 | .533E+04 | 52.469 | 3240.991 | 3.790 | .00337 |
| 39. | 3249.880 | 3.975 | .21E-05 | 0.00 | .64E-06 | -91.035 | .27E-05 | 99.508 | .529E+04 | 51.355 | 3239.050 | 3.649 | .00333 |
| 40. | 3247.834 | 3.808 | .21E-05 | 0.00 | .64E-06 | -92.001 | .28E-05 | 99.433 | .525E+04 | 50.237 | 3237.140 | 3.503 | .00329 |
| 41. | 3245.822 | 3.638 | .21E-05 | 0.00 | .63E-06 | -93.008 | .28E-05 | 99.354 | .521E+04 | 49.113 | 3235.260 | 3.353 | .00325 |
| 42. | 3243.845 | 3.464 | .21E-05 | 0.00 | .63E-06 | -94.058 | .28E-05 | 99.272 | .518E+04 | 47.985 | 3233.410 | 3.200 | .00322 |
| 43. | 3241.900 | 3.287 | .21E-05 | 0.00 | .63E-06 | -95.151 | .28E-05 | 99.186 | .514E+04 | 46.854 | 3231.590 | 3.043 | .00318 |
| 44. | 3239.988 | 3.108 | .21E-05 | 0.00 | .62E-06 | -96.287 | .28E-05 | 99.095 | .510E+04 | 45.720 | 3229.799 | 2.884 | .00314 |
| 45. | 3238.107 | 2.926 | .21E-05 | 0.00 | .62E-06 | -97.468 | .28E-05 | 99.000 | .507E+04 | 44.584 | 3228.035 | 2.721 | .00311 |
| 46. | 3236.256 | 2.742 | .21E-05 | 0.00 | .61E-06 | -98.694 | .28E-05 | 98.901 | .504E+04 | 43.447 | 3226.300 | 2.557 | .00308 |
| 47. | 3234.435 | 2.557 | .21E-05 | 0.00 | .61E-06 | -99.965 | .28E-05 | 98.797 | .500E+04 | 42.310 | 3224.591 | 2.390 | .00304 |
| 48. | 3232.642 | 2.369 | .21E-05 | 0.00 | .61E-06 | -101.281 | .28E-05 | 98.688 | .497E+04 | 41.173 | 3222.908 | 2.221 | .00301 |
| 49. | 3230.877 | 2.181 | .21E-05 | 0.00 | .60E-06 | -102.644 | .28E-05 | 98.574 | .494E+04 | 40.038 | 3221.251 | 2.050 | .00298 |

Y-AXIS BOULE LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3229.139 | 1.992 | .21E-05 | 0.00 | .60E-06 | -104.051 | .28E-05 | 98.455 | .490E+04 | 38.905 | 3219.618 | 1.879 | .00295 |
| 51. | 3227.427 | 1.802 | .21E-05 | 0.00 | .59E-06 | -105.504 | .28E-05 | 98.331 | .487E+04 | 37.775 | 3218.009 | 1.706 | .00292 |
| 52. | 3225.740 | 1.612 | .21E-05 | 0.00 | .59E-06 | -107.000 | .28E-05 | 98.201 | .484E+04 | 36.649 | 3216.423 | 1.533 | .00289 |
| 53. | 3224.078 | 1.422 | .21E-05 | 0.00 | .58E-06 | -108.540 | .28E-05 | 98.066 | .481E+04 | 35.528 | 3214.860 | 1.360 | .00286 |
| 54. | 3222.440 | 1.233 | .21E-05 | 0.00 | .58E-06 | -110.123 | .28E-05 | 97.926 | .478E+04 | 34.412 | 3213.320 | 1.186 | .00283 |
| 55. | 3220.826 | 1.044 | .21E-05 | 0.00 | .58E-06 | -111.746 | .29E-05 | 97.779 | .475E+04 | 33.303 | 3211.802 | 1.014 | .00280 |
| 56. | 3219.236 | .857 | .21E-05 | 0.00 | .57E-06 | -117.408 | .29E-05 | 97.628 | .472E+04 | 32.201 | 3210.305 | .842 | .00277 |
| 57. | 3217.669 | .671 | .21E-05 | 0.00 | .57E-06 | -115.108 | .29E-05 | 97.470 | .469E+04 | 31.106 | 3208.831 | .671 | .00275 |
| 58. | 3216.125 | .487 | .21E-05 | 0.00 | .56E-06 | -116.844 | .29E-05 | 97.307 | .466E+04 | 30.020 | 3207.379 | .501 | .00272 |
| 59. | 3214.606 | .306 | .21E-05 | 0.00 | .56E-06 | -118.617 | .29E-05 | 97.138 | .463E+04 | 28.943 | 3205.949 | .334 | .00269 |
| 60. | 3213.110 | .127 | .21E-05 | 0.00 | .56E-06 | -120.414 | .29E-05 | 96.964 | .460E+04 | 27.876 | 3204.542 | .169 | .00267 |
| 61. | 3211.639 | -.049 | .21E-05 | 0.00 | .55E-06 | -122.243 | .29E-05 | 96.784 | .457E+04 | 26.818 | 3203.159 | .006 | .00264 |
| 62. | 3210.195 | -.222 | .21E-05 | 0.00 | .55E-06 | -124.099 | .29E-05 | 96.599 | .454E+04 | 25.771 | 3201.799 | -.154 | .00262 |
| 63. | 3208.776 | -.390 | .21E-05 | 0.00 | .54E-06 | -125.980 | .29E-05 | 96.408 | .452E+04 | 24.734 | 3200.465 | -.311 | .00259 |
| 64. | 3207.386 | -.555 | .21E-05 | 0.00 | .54E-06 | -127.881 | .29E-05 | 96.213 | .449E+04 | 23.707 | 3199.157 | -.464 | .00257 |
| 65. | 3206.024 | -.716 | .21E-05 | 0.00 | .54E-06 | -129.803 | .29E-05 | 96.012 | .446E+04 | 22.692 | 3197.877 | -.614 | .00254 |
| 66. | 3204.694 | -.872 | .21E-05 | 0.00 | .54E-06 | -131.741 | .29E-05 | 95.807 | .443E+04 | 21.687 | 3196.626 | -.759 | .00252 |
| 67. | 3203.395 | -1.023 | .21E-05 | 0.00 | .54E-06 | -133.694 | .29E-05 | 95.597 | .441E+04 | 20.693 | 3195.405 | -.900 | .00249 |
| 68. | 3202.130 | -1.169 | .21E-05 | 0.00 | .53E-06 | -135.661 | .29E-05 | 95.382 | .438E+04 | 19.710 | 3194.216 | -1.037 | .00247 |
| 69. | 3200.902 | -1.309 | .21E-05 | 0.00 | .53E-06 | -137.633 | .29E-05 | 95.164 | .436E+04 | 18.737 | 3193.061 | -1.168 | .00245 |
| 70. | 3199.711 | -1.444 | .21E-05 | 0.00 | .53E-06 | -139.624 | .29E-05 | 94.941 | .433E+04 | 17.775 | 3191.942 | -1.295 | .00243 |
| 71. | 3198.560 | -1.574 | .21E-05 | 0.00 | .53E-06 | -141.619 | .29E-05 | 94.715 | .431E+04 | 16.822 | 3190.861 | -1.416 | .00241 |
| 72. | 3197.451 | -1.697 | .21E-05 | 0.00 | .52E-06 | -143.620 | .29E-05 | 94.486 | .429E+04 | 15.879 | 3189.819 | -1.532 | .00239 |
| 73. | 3196.385 | -1.814 | .21E-05 | 0.00 | .52E-06 | -145.626 | .29E-05 | 94.253 | .427E+04 | 14.946 | 3188.819 | -1.642 | .00237 |
| 74. | 3195.369 | -1.925 | .21E-05 | 0.00 | .52E-06 | -147.636 | .29E-05 | 94.017 | .425E+04 | 14.021 | 3187.863 | -1.746 | .00235 |
| 75. | 3194.398 | -2.029 | .21E-05 | 0.00 | .52E-06 | -149.650 | .29E-05 | 93.778 | .423E+04 | 13.104 | 3186.952 | -1.845 | .00233 |
| 76. | 3193.479 | -2.127 | .21E-05 | 0.00 | .52E-06 | -151.667 | .29E-05 | 93.537 | .421E+04 | 12.195 | 3186.089 | -1.937 | .00231 |
| 77. | 3192.612 | -2.219 | .21E-05 | 0.00 | .52E-06 | -153.685 | .30E-05 | 93.293 | .419E+04 | 11.294 | 3185.276 | -2.024 | .00230 |
| 78. | 3191.801 | -2.304 | .21E-05 | 0.00 | .52E-06 | -155.705 | .30E-05 | 93.047 | .417E+04 | 10.399 | 3184.514 | -2.104 | .00228 |
| 79. | 3191.046 | -2.382 | .21E-05 | 0.00 | .52E-06 | -157.727 | .30E-05 | 92.800 | .416E+04 | 9.511 | 3183.806 | -2.178 | .00227 |
| 80. | 3190.350 | -2.454 | .21E-05 | 0.00 | .52E-06 | -159.750 | .30E-05 | 92.550 | .414E+04 | 8.628 | 3183.153 | -2.246 | .00226 |
| 81. | 3189.715 | -2.518 | .21E-05 | 0.00 | .51E-06 | -161.773 | .30E-05 | 92.299 | .413E+04 | 7.751 | 3182.557 | -2.307 | .00224 |
| 82. | 3189.142 | -2.576 | .21E-05 | 0.00 | .51E-06 | -163.797 | .30E-05 | 92.047 | .412E+04 | 6.878 | 3182.019 | -2.362 | .00223 |
| 83. | 3188.632 | -2.627 | .21E-05 | 0.00 | .51E-06 | -165.821 | .30E-05 | 91.794 | .411E+04 | 6.009 | 3181.541 | -2.411 | .00222 |
| 84. | 3188.188 | -2.672 | .21E-05 | 0.00 | .51E-06 | -167.846 | .30E-05 | 91.539 | .410E+04 | 5.144 | 3181.125 | -2.453 | .00222 |
| 85. | 3187.810 | -2.709 | .21E-05 | 0.00 | .51E-06 | -169.871 | .30E-05 | 91.284 | .409E+04 | 4.282 | 3180.770 | -2.489 | .00221 |
| 86. | 3187.499 | -2.740 | .21E-05 | 0.00 | .51E-06 | -171.897 | .30E-05 | 91.028 | .408E+04 | 3.423 | 3180.478 | -2.518 | .00220 |
| 87. | 3187.257 | -2.764 | .21E-05 | 0.00 | .51E-06 | -173.922 | .30E-05 | 90.771 | .408E+04 | 2.565 | 3180.251 | -2.541 | .00220 |
| 88. | 3187.083 | -2.781 | .21E-05 | 0.00 | .51E-06 | -175.948 | .30E-05 | 90.514 | .407E+04 | 1.709 | 3180.088 | -2.557 | .00219 |
| 89. | 3186.978 | -2.791 | .21E-05 | 0.00 | .51E-06 | -177.974 | .30E-05 | 90.257 | .407E+04 | .854 | 3179.990 | -2.567 | .00219 |
| 90. | 3186.943 | -2.795 | .21E-05 | 0.00 | .51E-06 | 180.000 | .30E-05 | 90.000 | .407E+04 | 0.000 | 3179.957 | -2.570 | .00219 |
| 91. | 3186.978 | -2.791 | .21E-05 | 0.00 | .51E-06 | 177.974 | .30E-05 | 89.743 | .407E+04 | -.854 | 3179.990 | -2.567 | .00219 |
| 92. | 3187.083 | -2.781 | .21E-05 | 0.00 | .51E-06 | 175.948 | .30E-05 | 89.486 | .407E+04 | -1.709 | 3180.088 | -2.557 | .00219 |
| 93. | 3187.257 | -2.764 | .21E-05 | 0.00 | .51E-06 | 173.922 | .30E-05 | 89.229 | .408E+04 | -2.565 | 3180.251 | -2.541 | .00220 |
| 94. | 3187.499 | -2.740 | .21E-05 | 0.00 | .51E-06 | 171.897 | .30E-05 | 88.972 | .408E+04 | -3.423 | 3180.478 | -2.518 | .00220 |
| 95. | 3187.810 | -2.709 | .21E-05 | 0.00 | .51E-06 | 169.871 | .30E-05 | 88.716 | .409E+04 | -4.282 | 3180.770 | -2.489 | .00221 |
| 96. | 3188.188 | -2.672 | .21E-05 | 0.00 | .51E-06 | 167.846 | .30E-05 | 88.461 | .410E+04 | -5.144 | 3181.125 | -2.453 | .00222 |
| 97. | 3188.632 | -2.627 | .21E-05 | 0.00 | .51E-06 | 165.821 | .30E-05 | 88.206 | .411E+04 | -6.009 | 3181.541 | -2.411 | .00222 |
| 98. | 3189.142 | -2.576 | .21E-05 | 0.00 | .51E-06 | 163.797 | .30E-05 | 87.952 | .412E+04 | -6.878 | 3182.019 | -2.362 | .00223 |
| 99. | 3189.715 | -2.518 | .21E-05 | 0.00 | .51E-06 | 161.773 | .30E-05 | 87.701 | .413E+04 | -7.751 | 3182.557 | -2.307 | .00224 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3190.350 | -2.454 | .21E-05 | 0.00 | .52E-06 | 159.750 | .30E-05 | 87.450 | .414E+04 | -8.628 | 3183.153 | -2.246 | .00226 |
| 101. | 3191.046 | -2.382 | .21E-05 | 0.00 | .52E-06 | 157.727 | .30E-05 | 87.200 | .416E+04 | -9.511 | 3183.806 | -2.178 | .00227 |
| 102. | 3191.801 | -2.304 | .21E-05 | 0.00 | .52E-06 | 155.705 | .30E-05 | 86.953 | .417E+04 | -10.399 | 3184.514 | -2.104 | .00228 |
| 103. | 3192.612 | -2.219 | .21E-05 | 0.00 | .52E-06 | 153.685 | .30E-05 | 86.707 | .419E+04 | -11.294 | 3185.276 | -2.024 | .00230 |
| 104. | 3193.479 | -2.127 | .21E-05 | 0.00 | .52E-06 | 151.667 | .29E-05 | 86.463 | .421E+04 | -12.195 | 3186.089 | -1.937 | .00231 |
| 105. | 3194.398 | -2.029 | .21E-05 | 0.00 | .52E-06 | 149.650 | .29E-05 | 86.222 | .423E+04 | -13.104 | 3186.952 | -1.845 | .00233 |
| 106. | 3195.368 | -1.925 | .21E-05 | 0.00 | .52E-06 | 147.636 | .29E-05 | 85.983 | .425E+04 | -14.021 | 3187.863 | -1.746 | .00235 |
| 107. | 3196.386 | -1.814 | .21E-05 | 0.00 | .52E-06 | 145.626 | .29E-05 | 85.747 | .427E+04 | -14.946 | 3188.819 | -1.642 | .00237 |
| 108. | 3197.451 | -1.697 | .21E-05 | 0.00 | .52E-06 | 143.620 | .29E-05 | 85.514 | .429E+04 | -15.879 | 3189.819 | -1.532 | .00239 |
| 109. | 3198.560 | -1.574 | .21E-05 | 0.00 | .53E-06 | 141.619 | .29E-05 | 85.285 | .431E+04 | -16.822 | 3190.861 | -1.416 | .00241 |
| 110. | 3199.711 | -1.444 | .21E-05 | 0.00 | .53E-06 | 139.624 | .29E-05 | 85.059 | .433E+04 | -17.775 | 3191.942 | -1.295 | .00243 |
| 111. | 3200.902 | -1.309 | .21E-05 | 0.00 | .53E-06 | 137.638 | .29E-05 | 84.836 | .436E+04 | -18.737 | 3193.061 | -1.168 | .00245 |
| 112. | 3202.130 | -1.169 | .21E-05 | 0.00 | .53E-06 | 135.661 | .29E-05 | 84.618 | .438E+04 | -19.710 | 3194.216 | -1.037 | .00247 |
| 113. | 3203.395 | -1.023 | .21E-05 | 0.00 | .54E-06 | 133.694 | .29E-05 | 84.403 | .441E+04 | -20.693 | 3195.405 | -.900 | .00249 |
| 114. | 3204.694 | -.872 | .21E-05 | 0.00 | .54E-06 | 131.741 | .29E-05 | 84.193 | .443E+04 | -21.687 | 3196.626 | -.759 | .00252 |
| 115. | 3206.024 | -.715 | .21E-05 | 0.00 | .54E-06 | 129.803 | .29E-05 | 83.988 | .446E+04 | -22.692 | 3197.877 | -.614 | .00254 |
| 116. | 3207.386 | -.555 | .21E-05 | 0.00 | .54E-06 | 127.881 | .29E-05 | 83.787 | .449E+04 | -23.707 | 3199.157 | -.464 | .00257 |
| 117. | 3208.776 | -.390 | .21E-05 | 0.00 | .54E-06 | 125.980 | .29E-05 | 83.592 | .452E+04 | -24.734 | 3200.465 | -.311 | .00259 |
| 118. | 3210.195 | -.222 | .21E-05 | 0.00 | .55E-06 | 124.099 | .29E-05 | 83.401 | .454E+04 | -25.771 | 3201.799 | -.154 | .00262 |
| 119. | 3211.639 | -.049 | .21E-05 | 0.00 | .55E-06 | 122.243 | .29E-05 | 83.216 | .457E+04 | -26.818 | 3203.159 | .006 | .00264 |
| 120. | 3213.110 | .127 | .21E-05 | 0.00 | .56E-06 | 120.414 | .29E-05 | 83.036 | .460E+04 | -27.876 | 3204.542 | .169 | .00267 |
| 121. | 3214.605 | .306 | .21E-05 | 0.00 | .56E-06 | 118.613 | .29E-05 | 82.862 | .463E+04 | -28.943 | 3205.949 | .334 | .00269 |
| 122. | 3216.125 | .487 | .21E-05 | 0.00 | .56E-06 | 116.844 | .29E-05 | 82.693 | .466E+04 | -30.020 | 3207.379 | .501 | .00272 |
| 123. | 3217.669 | .671 | .21E-05 | 0.00 | .57E-06 | 115.108 | .29E-05 | 82.530 | .469E+04 | -31.106 | 3208.831 | .671 | .00275 |
| 124. | 3219.236 | .857 | .21E-05 | 0.00 | .57E-06 | 113.408 | .29E-05 | 82.372 | .472E+04 | -32.201 | 3210.305 | .842 | .00277 |
| 125. | 3220.826 | 1.044 | .21E-05 | 0.00 | .58E-06 | 111.746 | .29E-05 | 82.221 | .475E+04 | -33.303 | 3211.802 | 1.014 | .00280 |
| 126. | 3222.440 | 1.233 | .21E-05 | 0.00 | .58E-06 | 110.123 | .28E-05 | 82.074 | .478E+04 | -34.412 | 3213.320 | 1.186 | .00283 |
| 127. | 3224.078 | 1.422 | .21E-05 | 0.00 | .58E-06 | 108.540 | .28E-05 | 81.934 | .481E+04 | -35.528 | 3214.860 | 1.360 | .00286 |
| 128. | 3225.740 | 1.612 | .21E-05 | 0.00 | .59E-06 | 107.000 | .28E-05 | 81.799 | .484E+04 | -36.649 | 3216.423 | 1.533 | .00289 |
| 129. | 3227.427 | 1.802 | .21E-05 | 0.00 | .59E-06 | 105.504 | .29E-05 | 81.669 | .487E+04 | -37.775 | 3218.009 | 1.706 | .00292 |
| 130. | 3229.139 | 1.992 | .21E-05 | 0.00 | .60E-06 | 104.051 | .28E-05 | 81.545 | .490E+04 | -38.905 | 3219.618 | 1.879 | .00295 |
| 131. | 3230.877 | 2.181 | .21E-05 | 0.00 | .60E-06 | 102.644 | .28E-05 | 81.426 | .494E+04 | -40.038 | 3221.251 | 2.050 | .00298 |
| 132. | 3232.642 | 2.369 | .21E-05 | 0.00 | .61E-06 | 101.281 | .28E-05 | 81.312 | .497E+04 | -41.173 | 3222.908 | 2.221 | .00301 |
| 133. | 3234.435 | 2.557 | .21E-05 | 0.00 | .61E-06 | 99.965 | .28E-05 | 81.203 | .500E+04 | -42.310 | 3224.591 | 2.390 | .00304 |
| 134. | 3236.256 | 2.742 | .21E-05 | 0.00 | .61E-06 | 98.694 | .28E-05 | 81.099 | .504E+04 | -43.447 | 3226.300 | 2.557 | .00308 |
| 135. | 3238.107 | 2.926 | .21E-05 | 0.00 | .62E-06 | 97.468 | .28E-05 | 81.000 | .507E+04 | -44.584 | 3228.035 | 2.721 | .00311 |
| 136. | 3239.988 | 3.108 | .21E-05 | 0.00 | .62E-06 | 96.287 | .28E-05 | 80.905 | .510E+04 | -45.720 | 3229.799 | 2.884 | .00314 |
| 137. | 3241.900 | 3.287 | .21E-05 | 0.00 | .63E-06 | 95.151 | .28E-05 | 80.814 | .514E+04 | -46.854 | 3231.590 | 3.043 | .00318 |
| 138. | 3243.845 | 3.464 | .21E-05 | 0.00 | .63E-06 | 94.059 | .28E-05 | 80.728 | .518E+04 | -47.985 | 3233.410 | 3.200 | .00322 |
| 139. | 3245.822 | 3.638 | .21E-05 | 0.00 | .63E-06 | 93.008 | .28E-05 | 80.646 | .521E+04 | -49.113 | 3235.260 | 3.353 | .00325 |
| 140. | 3247.834 | 3.808 | .21E-05 | 0.00 | .64E-06 | 92.001 | .28E-05 | 80.567 | .525E+04 | -50.237 | 3237.140 | 3.503 | .00329 |
| 141. | 3249.880 | 3.975 | .21E-05 | 0.00 | .64E-06 | 91.035 | .27E-05 | 80.492 | .529E+04 | -51.355 | 3239.050 | 3.649 | .00333 |
| 142. | 3251.960 | 4.138 | .21E-05 | 0.00 | .64E-06 | 90.109 | .27E-05 | 80.421 | .533E+04 | -52.469 | 3240.991 | 3.790 | .00337 |
| 143. | 3254.076 | 4.297 | .21E-05 | 0.00 | .65E-06 | 89.222 | .27E-05 | 80.353 | .537E+04 | -53.576 | 3242.962 | 3.927 | .00342 |
| 144. | 3256.228 | 4.451 | .21E-05 | 0.00 | .65E-06 | 88.373 | .27E-05 | 80.288 | .541E+04 | -54.676 | 3244.964 | 4.059 | .00346 |
| 145. | 3258.415 | 4.601 | .21E-05 | 0.00 | .65E-06 | 87.561 | .27E-05 | 80.226 | .545E+04 | -55.769 | 3246.997 | 4.186 | .00350 |
| 146. | 3260.637 | 4.745 | .21E-05 | 0.00 | .65E-06 | 86.785 | .27E-05 | 80.166 | .550E+04 | -56.854 | 3249.059 | 4.307 | .00355 |
| 147. | 3262.895 | 4.884 | .21E-05 | 0.00 | .65E-06 | 86.044 | .27E-05 | 80.110 | .554E+04 | -57.930 | 3251.151 | 4.422 | .00360 |
| 148. | 3265.188 | 5.016 | .21E-05 | 0.00 | .65E-06 | 85.337 | .27E-05 | 80.056 | .559E+04 | -58.997 | 3253.271 | 4.530 | .00365 |
| 149. | 3267.514 | 5.142 | .21E-05 | 0.00 | .65E-06 | 84.662 | .27E-05 | 80.005 | .564E+04 | -60.054 | 3255.418 | 4.632 | .00370 |

Y-AXIS BOULE  LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3269.873 | 5.260 | .21E-05 | 0.00 | .65E-06 | 84.019 | .27E-05 | 79.956 | .569E+04 | -61.101 | 3257.591 | 4.726 | .00376 |
| 151. | 3272.263 | 5.371 | .21E-05 | 0.00 | .65E-06 | 83.407 | .27E-05 | 79.910 | .574E+04 | -62.136 | 3259.787 | 4.812 | .00381 |
| 152. | 3274.633 | 5.474 | .21E-05 | 0.00 | .64E-06 | 82.825 | .27E-05 | 79.865 | .579E+04 | -63.159 | 3262.005 | 4.889 | .00387 |
| 153. | 3277.130 | 5.567 | .21E-05 | 0.00 | .64E-06 | 82.271 | .27E-05 | 79.823 | .584E+04 | -64.170 | 3264.243 | 4.957 | .00393 |
| 154. | 3279.602 | 5.650 | .21E-05 | 0.00 | .63E-06 | 81.746 | .27E-05 | 79.783 | .590E+04 | -65.166 | 3266.496 | 5.015 | .00400 |
| 155. | 3282.096 | 5.723 | .21E-05 | 0.00 | .63E-06 | 81.247 | .27E-05 | 79.744 | .596E+04 | -66.149 | 3268.762 | 5.062 | .00406 |
| 156. | 3284.608 | 5.783 | .21E-05 | 0.00 | .62E-06 | 80.775 | .27E-05 | 79.708 | .601E+04 | -67.115 | 3271.037 | 5.097 | .00413 |
| 157. | 3287.134 | 5.831 | .21E-05 | 0.00 | .62E-06 | 80.329 | .27E-05 | 79.673 | .607E+04 | -68.065 | 3273.317 | 5.120 | .00420 |
| 158. | 3289.670 | 5.865 | .21E-05 | 0.00 | .61E-06 | 79.908 | .27E-05 | 79.640 | .614E+04 | -68.998 | 3275.597 | 5.129 | .00428 |
| 159. | 3292.210 | 5.883 | .21E-05 | 0.00 | .60E-06 | 79.511 | .27E-05 | 79.609 | .620E+04 | -69.910 | 3277.871 | 5.123 | .00436 |
| 160. | 3294.749 | 5.884 | .21E-05 | 0.00 | .59E-06 | 79.137 | .27E-05 | 79.579 | .627E+04 | -70.803 | 3280.134 | 5.102 | .00444 |
| 161. | 3297.279 | 5.866 | .21E-05 | 0.00 | .57E-06 | 78.787 | .27E-05 | 79.552 | .634E+04 | -71.673 | 3282.380 | 5.063 | .00452 |
| 162. | 3299.793 | 5.829 | .22E-05 | 0.00 | .56E-06 | 78.459 | .27E-05 | 79.525 | .641E+04 | -72.520 | 3284.600 | 5.006 | .00460 |
| 163. | 3302.283 | 5.769 | .22E-05 | 0.00 | .54E-06 | 78.153 | .27E-05 | 79.501 | .648E+04 | -73.340 | 3286.788 | 4.929 | .00469 |
| 164. | 3304.739 | 5.684 | .22E-05 | 0.00 | .53E-06 | 77.868 | .27E-05 | 79.477 | .655E+04 | -74.134 | 3288.934 | 4.832 | .00478 |
| 165. | 3307.152 | 5.574 | .22E-05 | 0.00 | .51E-06 | 77.604 | .27E-05 | 79.456 | .662E+04 | -74.898 | 3291.031 | 4.712 | .00487 |
| 166. | 3309.509 | 5.435 | .22E-05 | 0.00 | .49E-06 | 77.361 | .27E-05 | 79.435 | .670E+04 | -75.630 | 3293.067 | 4.569 | .00497 |
| 167. | 3311.799 | 5.266 | .22E-05 | 0.00 | .47E-06 | 77.137 | .27E-05 | 79.416 | .677E+04 | -76.328 | 3295.034 | 4.401 | .00506 |
| 168. | 3314.009 | 5.064 | .22E-05 | 0.00 | .44E-06 | 76.933 | .27E-05 | 79.399 | .684E+04 | -76.989 | 3296.921 | 4.207 | .00516 |
| 169. | 3316.124 | 4.823 | .22E-05 | 0.00 | .42E-06 | 76.747 | .27E-05 | 79.383 | .692E+04 | -77.611 | 3298.715 | 3.987 | .00525 |
| 170. | 3318.130 | 4.555 | .22E-05 | 0.00 | .39E-06 | 76.580 | .27E-05 | 79.368 | .699E+04 | -78.192 | 3300.406 | 3.740 | .00534 |
| 171. | 3320.011 | 4.246 | .22E-05 | 0.00 | .36E-06 | 76.430 | .27E-05 | 79.355 | .705E+04 | -78.728 | 3301.983 | 3.465 | .00543 |
| 172. | 3321.751 | 3.899 | .22E-05 | 0.00 | .32E-06 | 76.298 | .27E-05 | 79.343 | .712E+04 | -79.217 | 3303.432 | 3.164 | .00551 |
| 173. | 3323.335 | 3.514 | .22E-05 | 0.00 | .29E-06 | 76.183 | .27E-05 | 79.333 | .718E+04 | -79.657 | 3304.744 | 2.837 | .00559 |
| 174. | 3324.746 | 3.093 | .23E-05 | 0.00 | .25E-06 | 76.085 | .28E-05 | 79.324 | .723E+04 | -80.044 | 3305.907 | 2.484 | .00567 |
| 175. | 3325.970 | 2.638 | .23E-05 | 0.00 | .21E-06 | 76.002 | .28E-05 | 79.316 | .728E+04 | -80.376 | 3306.910 | 2.109 | .00573 |
| 176. | 3326.993 | 2.152 | .23E-05 | 0.00 | .17E-06 | 75.935 | .28E-05 | 79.310 | .733E+04 | -80.651 | 3307.745 | 1.714 | .00579 |
| 177. | 3327.803 | 1.639 | .23E-05 | 0.00 | .13E-06 | 75.883 | .28E-05 | 79.305 | .736E+04 | -80.867 | 3308.404 | 1.301 | .00583 |
| 178. | 3328.389 | 1.105 | .23E-05 | 0.00 | .88E-07 | 75.847 | .28E-05 | 79.302 | .738E+04 | -81.023 | 3308.879 | .875 | .00586 |
| 179. | 3328.743 | .556 | .23E-05 | 0.00 | .44E-07 | 75.825 | .28E-05 | 79.300 | .740E+04 | -81.117 | 3309.166 | .440 | .00588 |
| 180. | 3328.862 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .28E-05 | 79.299 | .740E+04 | -81.148 | 3309.262 | 0.000 | .00589 |

Z-AXIS BOULE  LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3229.879 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.135 | .555E+04 | -173.565 | 3219.028 | 0.000 | .00336 |
| 1. | 3229.867 | -.229 | .20E-05 | 0.00 | .12E-07 | -175.733 | .29E-05 | 92.132 | .555E+04 | -173.573 | 3219.019 | -.215 | .00336 |
| 2. | 3229.833 | -.456 | .20E-05 | 0.00 | .25E-07 | -175.750 | .29E-05 | 92.122 | .555E+04 | -173.596 | 3218.991 | -.429 | .00336 |
| 3. | 3229.775 | -.683 | .20E-05 | 0.00 | .37E-07 | -175.779 | .29E-05 | 92.106 | .554E+04 | -173.634 | 3218.944 | -.641 | .00335 |
| 4. | 3229.696 | -.907 | .20E-05 | 0.00 | .49E-07 | -175.819 | .29E-05 | 92.083 | .554E+04 | -173.688 | 3218.879 | -.852 | .00335 |
| 5. | 3229.596 | -1.128 | .20E-05 | 0.00 | .61E-07 | -175.871 | .29E-05 | 92.054 | .553E+04 | -173.757 | 3218.798 | -1.059 | .00334 |
| 6. | 3229.476 | -1.345 | .20E-05 | 0.00 | .72E-07 | -175.934 | .29E-05 | 92.019 | .553E+04 | -173.841 | 3218.700 | -1.264 | .00334 |
| 7. | 3229.337 | -1.559 | .20E-05 | 0.00 | .84E-07 | -176.008 | .29E-05 | 91.978 | .552E+04 | -173.941 | 3218.587 | -1.464 | .00333 |
| 8. | 3229.181 | -1.765 | .20E-05 | 0.00 | .95E-07 | -176.093 | .29E-05 | 91.932 | .551E+04 | -174.057 | 3218.461 | -1.660 | .00332 |
| 9. | 3229.011 | -1.968 | .20E-05 | 0.00 | .11E-06 | -176.188 | .29E-05 | 91.879 | .550E+04 | -174.188 | 3218.322 | -1.851 | .00331 |
| 10. | 3228.827 | -2.163 | .20E-05 | 0.00 | .12E-06 | -176.294 | .29E-05 | 91.822 | .549E+04 | -174.335 | 3218.172 | -2.036 | .00330 |
| 11. | 3228.633 | -2.353 | .20E-05 | 0.00 | .13E-06 | -176.410 | .29E-05 | 91.760 | .548E+04 | -174.497 | 3218.014 | -2.215 | .00329 |
| 12. | 3228.429 | -2.534 | .20E-05 | 0.00 | .14E-06 | -176.536 | .29E-05 | 91.693 | .547E+04 | -174.675 | 3217.848 | -2.387 | .00328 |
| 13. | 3228.220 | -2.708 | .20E-05 | 0.00 | .15E-06 | -176.672 | .29E-05 | 91.621 | .546E+04 | -174.868 | 3217.678 | -2.552 | .00327 |
| 14. | 3228.006 | -2.874 | .20E-05 | 0.00 | .15E-06 | -176.816 | .29E-05 | 91.545 | .545E+04 | -175.076 | 3217.503 | -2.709 | .00325 |
| 15. | 3227.790 | -3.032 | .20E-05 | 0.00 | .16E-06 | -176.970 | .29E-05 | 91.466 | .544E+04 | -175.299 | 3217.328 | -2.859 | .00324 |
| 16. | 3227.575 | -3.180 | .20E-05 | 0.00 | .17E-06 | -177.131 | .29E-05 | 91.393 | .543E+04 | -175.536 | 3217.152 | -3.000 | .00323 |
| 17. | 3227.363 | -3.319 | .20E-05 | 0.00 | .18E-06 | -177.301 | .29E-05 | 91.297 | .542E+04 | -175.788 | 3216.979 | -3.132 | .00322 |
| 18. | 3227.156 | -3.449 | .20E-05 | 0.00 | .18E-06 | -177.478 | .29E-05 | 91.208 | .541E+04 | -176.053 | 3216.811 | -3.256 | .00321 |
| 19. | 3226.956 | -3.569 | .20E-05 | 0.00 | .19E-06 | -177.663 | .29E-05 | 91.116 | .539E+04 | -176.331 | 3216.648 | -3.371 | .00319 |
| 20. | 3226.766 | -3.680 | .20E-05 | 0.00 | .20E-06 | -177.854 | .29E-05 | 91.022 | .538E+04 | -176.622 | 3216.494 | -3.476 | .00318 |
| 21. | 3226.588 | -3.780 | .20E-05 | 0.00 | .20E-06 | -178.051 | .29E-05 | 90.925 | .538E+04 | -176.924 | 3216.348 | -3.572 | .00317 |
| 22. | 3226.423 | -3.870 | .20E-05 | 0.00 | .21E-06 | -178.253 | .29E-05 | 90.827 | .537E+04 | -177.237 | 3216.214 | -3.658 | .00316 |
| 23. | 3226.273 | -3.949 | .20E-05 | 0.00 | .21E-06 | -178.460 | .29E-05 | 90.727 | .536E+04 | -177.560 | 3216.092 | -3.735 | .00316 |
| 24. | 3226.140 | -4.019 | .20E-05 | 0.00 | .21E-06 | -178.672 | .29E-05 | 90.626 | .535E+04 | -177.891 | 3215.983 | -3.801 | .00315 |
| 25. | 3226.025 | -4.077 | .20E-05 | 0.00 | .22E-06 | -178.888 | .29E-05 | 90.523 | .534E+04 | -178.231 | 3215.890 | -3.858 | .00314 |
| 26. | 3225.929 | -4.126 | .20E-05 | 0.00 | .22E-06 | -179.106 | .29E-05 | 90.420 | .534E+04 | -178.577 | 3215.812 | -3.904 | .00314 |
| 27. | 3225.854 | -4.163 | .20E-05 | 0.00 | .22E-06 | -179.327 | .29E-05 | 90.316 | .534E+04 | -178.928 | 3215.750 | -3.940 | .00313 |
| 28. | 3225.799 | -4.190 | .20E-05 | 0.00 | .22E-06 | -179.551 | .29E-05 | 90.211 | .533E+04 | -179.283 | 3215.706 | -3.966 | .00313 |
| 29. | 3225.766 | -4.206 | .20E-05 | 0.00 | .23E-06 | -179.775 | .29E-05 | 90.105 | .533E+04 | -179.641 | 3215.679 | -3.981 | .00313 |
| 30. | 3225.755 | -4.211 | .20E-05 | 0.00 | .23E-06 | -180.000 | .29E-05 | 90.000 | .533E+04 | -180.000 | 3215.670 | -3.986 | .00313 |
| 31. | 3225.766 | -4.206 | .20E-05 | 0.00 | .23E-06 | 179.775 | .29E-05 | 89.895 | .533E+04 | 179.641 | 3215.679 | -3.981 | .00313 |
| 32. | 3225.799 | -4.190 | .20E-05 | 0.00 | .22E-06 | 179.551 | .29E-05 | 89.789 | .533E+04 | 179.283 | 3215.706 | -3.966 | .00313 |
| 33. | 3225.854 | -4.163 | .20E-05 | 0.00 | .22E-06 | 179.327 | .29E-05 | 89.684 | .534E+04 | 178.928 | 3215.750 | -3.940 | .00313 |
| 34. | 3225.929 | -4.126 | .20E-05 | 0.00 | .22E-06 | 179.106 | .29E-05 | 89.580 | .534E+04 | 178.577 | 3215.812 | -3.904 | .00314 |
| 35. | 3226.025 | -4.077 | .20E-05 | 0.00 | .22E-06 | 178.888 | .29E-05 | 89.477 | .534E+04 | 178.231 | 3215.890 | -3.858 | .00314 |
| 36. | 3226.140 | -4.019 | .20E-05 | 0.00 | .21E-06 | 178.672 | .29E-05 | 89.374 | .535E+04 | 177.891 | 3215.983 | -3.801 | .00315 |
| 37. | 3226.273 | -3.949 | .20E-05 | 0.00 | .21E-06 | 178.460 | .29E-05 | 89.273 | .536E+04 | 177.560 | 3216.092 | -3.735 | .00316 |
| 38. | 3226.423 | -3.870 | .20E-05 | 0.00 | .21E-06 | 178.253 | .29E-05 | 89.173 | .537E+04 | 177.237 | 3216.214 | -3.658 | .00316 |
| 39. | 3226.588 | -3.780 | .20E-05 | 0.00 | .20E-06 | 178.051 | .29E-05 | 89.075 | .538E+04 | 176.924 | 3216.348 | -3.572 | .00317 |
| 40. | 3226.766 | -3.680 | .20E-05 | 0.00 | .20E-06 | 177.854 | .29E-05 | 88.978 | .538E+04 | 176.622 | 3216.494 | -3.476 | .00318 |
| 41. | 3226.956 | -3.569 | .20E-05 | 0.00 | .19E-06 | 177.663 | .29E-05 | 88.884 | .539E+04 | 176.331 | 3216.648 | -3.371 | .00319 |
| 42. | 3227.156 | -3.449 | .20E-05 | 0.00 | .18E-06 | 177.478 | .29E-05 | 88.792 | .541E+04 | 176.053 | 3216.811 | -3.256 | .00321 |
| 43. | 3227.363 | -3.319 | .20E-05 | 0.00 | .18E-06 | 177.301 | .29E-05 | 88.703 | .542E+04 | 175.788 | 3216.979 | -3.132 | .00322 |
| 44. | 3227.575 | -3.180 | .20E-05 | 0.00 | .17E-06 | 177.131 | .29E-05 | 88.617 | .543E+04 | 175.536 | 3217.152 | -3.000 | .00323 |
| 45. | 3227.790 | -3.032 | .20E-05 | 0.00 | .16E-06 | 176.970 | .29E-05 | 88.534 | .544E+04 | 175.299 | 3217.328 | -2.859 | .00324 |
| 46. | 3228.006 | -2.874 | .20E-05 | 0.00 | .15E-06 | 176.816 | .29E-05 | 88.455 | .545E+04 | 175.076 | 3217.503 | -2.709 | .00325 |
| 47. | 3228.220 | -2.708 | .20E-05 | 0.00 | .15E-06 | 176.672 | .29E-05 | 88.379 | .546E+04 | 174.868 | 3217.678 | -2.552 | .00327 |
| 48. | 3228.429 | -2.534 | .20E-05 | 0.00 | .14E-06 | 176.536 | .29E-05 | 88.307 | .547E+04 | 174.675 | 3217.848 | -2.387 | .00328 |
| 49. | 3228.633 | -2.353 | .20E-05 | 0.00 | .13E-06 | 176.410 | .29E-05 | 88.240 | .548E+04 | 174.497 | 3218.014 | -2.215 | .00329 |

Z-AXIS BOULE LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3228.827 | -2.163 | .20E-05 | 0.00 | .12E-06 | 176.294 | .29E-05 | 88.178 | .549E+04 | 174.335 | 3218.172 | -2.036 | .00330 |
| 51. | 3229.011 | -1.968 | .20E-05 | 0.00 | .11E-06 | 176.188 | .29E-05 | 88.121 | .550E+04 | 174.188 | 3218.322 | -1.851 | .00331 |
| 52. | 3229.181 | -1.765 | .20E-05 | 0.00 | .95E-07 | 176.093 | .29E-05 | 88.068 | .551E+04 | 174.057 | 3218.461 | -1.660 | .00332 |
| 53. | 3229.337 | -1.558 | .20E-05 | 0.00 | .84E-07 | 176.008 | .29E-05 | 88.022 | .552E+04 | 173.941 | 3218.587 | -1.464 | .00333 |
| 54. | 3229.476 | -1.345 | .20E-05 | 0.00 | .72E-07 | 175.934 | .29E-05 | 87.981 | .553E+04 | 173.841 | 3218.700 | -1.264 | .00334 |
| 55. | 3229.596 | -1.128 | .20E-05 | 0.00 | .61E-07 | 175.871 | .29E-05 | 87.946 | .553E+04 | 173.757 | 3218.798 | -1.059 | .00334 |
| 56. | 3229.696 | -.907 | .20E-05 | 0.00 | .49E-07 | 175.819 | .29E-05 | 87.917 | .554E+04 | 173.688 | 3218.879 | -.852 | .00335 |
| 57. | 3229.775 | -.683 | .20E-05 | 0.00 | .37E-07 | 175.779 | .29E-05 | 87.894 | .554E+04 | 173.634 | 3218.944 | -.641 | .00335 |
| 58. | 3229.833 | -.456 | .20E-05 | 0.00 | .25E-07 | 175.750 | .29E-05 | 87.878 | .555E+04 | 173.596 | 3218.991 | -.429 | .00336 |
| 59. | 3229.867 | -.229 | .20E-05 | 0.00 | .12E-07 | 175.733 | .29E-05 | 87.868 | .555E+04 | 173.573 | 3219.019 | -.215 | .00336 |
| 60. | 3229.879 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 87.865 | .555E+04 | 173.565 | 3219.028 | 0.000 | .00336 |
| 61. | 3229.867 | .229 | .20E-05 | 0.00 | .12E-07 | -4.267 | .29E-05 | 87.868 | .555E+04 | 173.573 | 3219.019 | .215 | .00336 |
| 62. | 3229.833 | .456 | .20E-05 | 0.00 | .25E-07 | -4.250 | .29E-05 | 87.878 | .555E+04 | 173.596 | 3218.991 | .429 | .00336 |
| 63. | 3229.775 | .683 | .20E-05 | 0.00 | .37E-07 | -4.221 | .29E-05 | 87.894 | .554E+04 | 173.634 | 3218.944 | .641 | .00335 |
| 64. | 3229.696 | .907 | .20E-05 | 0.00 | .49E-07 | -4.181 | .29E-05 | 87.917 | .554E+04 | 173.688 | 3218.879 | .852 | .00335 |
| 65. | 3229.596 | 1.128 | .20E-05 | 0.00 | .61E-07 | -4.129 | .29E-05 | 87.946 | .553E+04 | 173.757 | 3218.798 | 1.059 | .00334 |
| 66. | 3229.476 | 1.345 | .20E-05 | 0.00 | .72E-07 | -4.066 | .29E-05 | 87.981 | .553E+04 | 173.841 | 3218.700 | 1.264 | .00334 |
| 67. | 3229.337 | 1.558 | .20E-05 | 0.00 | .84E-07 | -3.992 | .29E-05 | 88.022 | .552E+04 | 173.941 | 3218.587 | 1.464 | .00333 |
| 68. | 3229.181 | 1.765 | .20E-05 | 0.00 | .95E-07 | -3.907 | .29E-05 | 88.068 | .551E+04 | 174.057 | 3218.461 | 1.660 | .00332 |
| 69. | 3229.011 | 1.968 | .20E-05 | 0.00 | .11E-06 | -3.812 | .29E-05 | 88.121 | .550E+04 | 174.188 | 3218.322 | 1.851 | .00331 |
| 70. | 3228.827 | 2.163 | .20E-05 | 0.00 | .12E-06 | -3.706 | .29E-05 | 88.178 | .549E+04 | 174.335 | 3218.172 | 2.036 | .00330 |
| 71. | 3228.633 | 2.353 | .20E-05 | 0.00 | .13E-06 | -3.590 | .29E-05 | 88.240 | .549E+04 | 174.497 | 3218.014 | 2.215 | .00329 |
| 72. | 3228.429 | 2.534 | .20E-05 | 0.00 | .14E-06 | -3.464 | .29E-05 | 88.307 | .547E+04 | 174.675 | 3217.848 | 2.387 | .00328 |
| 73. | 3228.220 | 2.708 | .20E-05 | 0.00 | .15E-06 | -3.328 | .29E-05 | 88.379 | .546E+04 | 174.868 | 3217.678 | 2.552 | .00327 |
| 74. | 3228.006 | 2.874 | .20E-05 | 0.00 | .15E-06 | -3.184 | .29E-05 | 88.455 | .545E+04 | 175.076 | 3217.503 | 2.709 | .00325 |
| 75. | 3227.790 | 3.032 | .20E-05 | 0.00 | .16E-06 | -3.030 | .29E-05 | 88.534 | .544E+04 | 175.299 | 3217.328 | 2.859 | .00324 |
| 76. | 3227.575 | 3.180 | .20E-05 | 0.00 | .17E-06 | -2.869 | .29E-05 | 88.617 | .543E+04 | 175.536 | 3217.152 | 3.000 | .00323 |
| 77. | 3227.363 | 3.319 | .20E-05 | 0.00 | .18E-06 | -2.699 | .29E-05 | 88.703 | .542E+04 | 175.788 | 3216.979 | 3.132 | .00322 |
| 78. | 3227.156 | 3.449 | .20E-05 | 0.00 | .18E-06 | -2.522 | .29E-05 | 88.792 | .541E+04 | 176.053 | 3216.811 | 3.256 | .00321 |
| 79. | 3226.956 | 3.569 | .20E-05 | 0.00 | .19E-06 | -2.337 | .29E-05 | 88.884 | .539E+04 | 176.331 | 3216.648 | 3.371 | .00319 |
| 80. | 3226.766 | 3.680 | .20E-05 | 0.00 | .20E-06 | -2.146 | .29E-05 | 88.978 | .538E+04 | 176.622 | 3216.494 | 3.476 | .00318 |
| 81. | 3226.588 | 3.780 | .20E-05 | 0.00 | .20E-06 | -1.949 | .29E-05 | 89.075 | .538E+04 | 176.924 | 3216.348 | 3.572 | .00317 |
| 82. | 3226.423 | 3.870 | .20E-05 | 0.00 | .21E-06 | -1.747 | .29E-05 | 89.173 | .537E+04 | 177.237 | 3216.214 | 3.658 | .00316 |
| 83. | 3226.273 | 3.949 | .20E-05 | 0.00 | .21E-06 | -1.540 | .29E-05 | 89.273 | .536E+04 | 177.560 | 3216.092 | 3.735 | .00316 |
| 84. | 3226.140 | 4.019 | .20E-05 | 0.00 | .21E-06 | -1.328 | .29E-05 | 89.374 | .535E+04 | 177.891 | 3215.983 | 3.801 | .00315 |
| 85. | 3226.025 | 4.077 | .20E-05 | 0.00 | .22E-06 | -1.112 | .29E-05 | 89.477 | .534E+04 | 178.231 | 3215.890 | 3.858 | .00314 |
| 86. | 3225.929 | 4.126 | .20E-05 | 0.00 | .22E-06 | -.894 | .29E-05 | 89.580 | .534E+04 | 178.577 | 3215.812 | 3.904 | .00314 |
| 87. | 3225.854 | 4.163 | .20E-05 | 0.00 | .22E-06 | -.673 | .29E-05 | 89.684 | .534E+04 | 178.928 | 3215.750 | 3.940 | .00313 |
| 88. | 3225.799 | 4.190 | .20E-05 | 0.00 | .22E-06 | -.449 | .29E-05 | 89.789 | .533E+04 | 179.283 | 3215.706 | 3.966 | .00313 |
| 89. | 3225.766 | 4.206 | .20E-05 | 0.00 | .23E-06 | -.225 | .29E-05 | 89.895 | .533E+04 | 179.641 | 3215.679 | 3.981 | .00313 |
| 90. | 3225.755 | 4.211 | .20E-05 | 0.00 | .23E-06 | 0.000 | .29E-05 | 90.000 | .533E+04 | -180.000 | 3215.670 | 3.986 | .00313 |
| 91. | 3225.766 | 4.206 | .20E-05 | 0.00 | .23E-06 | .225 | .29E-05 | 90.105 | .533E+04 | -179.641 | 3215.679 | 3.981 | .00313 |
| 92. | 3225.799 | 4.190 | .20E-05 | 0.00 | .22E-06 | .449 | .29E-05 | 90.211 | .533E+04 | -179.283 | 3215.706 | 3.966 | .00313 |
| 93. | 3225.854 | 4.163 | .20E-05 | 0.00 | .22E-06 | .673 | .29E-05 | 90.316 | .534E+04 | -178.928 | 3215.750 | 3.940 | .00313 |
| 94. | 3225.929 | 4.126 | .20E-05 | 0.00 | .22E-06 | .894 | .29E-05 | 90.420 | .534E+04 | -178.577 | 3215.812 | 3.904 | .00314 |
| 95. | 3226.025 | 4.077 | .20E-05 | 0.00 | .22E-06 | 1.112 | .29E-05 | 90.523 | .534E+04 | -178.231 | 3215.890 | 3.858 | .00314 |
| 96. | 3226.140 | 4.019 | .20E-05 | 0.00 | .21E-06 | 1.328 | .29E-05 | 90.626 | .535E+04 | -177.891 | 3215.983 | 3.801 | .00315 |
| 97. | 3226.273 | 3.949 | .20E-05 | 0.00 | .21E-06 | 1.540 | .29E-05 | 90.727 | .536E+04 | -177.560 | 3216.092 | 3.735 | .00316 |
| 98. | 3226.423 | 3.870 | .20E-05 | 0.00 | .21E-06 | 1.747 | .29E-05 | 90.827 | .537E+04 | -177.237 | 3216.214 | 3.658 | .00316 |
| 99. | 3226.588 | 3.780 | .20E-05 | 0.00 | .20E-06 | 1.949 | .29E-05 | 90.925 | .538E+04 | -176.924 | 3216.348 | 3.572 | .00317 |

Z-AXIS BOULE  LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3226.766 | 3.680 | .20E-05 | 0.00 | .20E-06 | 2.146 | .29E-05 | 91.022 | .538E+04 | -176.622 | 3216.494 | 3.476 | .00318 |
| 101. | 3226.956 | 3.569 | .20E-05 | 0.00 | .19E-06 | 2.337 | .29E-05 | 91.116 | .539E+04 | -176.331 | 3216.648 | 3.371 | .00319 |
| 102. | 3227.156 | 3.449 | .20E-05 | 0.00 | .18E-06 | 2.522 | .29E-05 | 91.208 | .541E+04 | -176.053 | 3216.811 | 3.256 | .00321 |
| 103. | 3227.363 | 3.319 | .20E-05 | 0.00 | .19E-06 | 2.699 | .29E-05 | 91.297 | .542E+04 | -175.788 | 3216.979 | 3.132 | .00322 |
| 104. | 3227.575 | 3.180 | .20E-05 | 0.00 | .17E-06 | 2.869 | .29E-05 | 91.383 | .543E+04 | -175.536 | 3217.152 | 3.000 | .00323 |
| 105. | 3227.790 | 3.032 | .20E-05 | 0.00 | .16E-06 | 3.030 | .29E-05 | 91.466 | .544E+04 | -175.299 | 3217.328 | 2.859 | .00324 |
| 106. | 3228.006 | 2.874 | .20E-05 | 0.00 | .15E-06 | 3.184 | .29E-05 | 91.545 | .545E+04 | -175.076 | 3217.503 | 2.709 | .00325 |
| 107. | 3228.220 | 2.708 | .20E-05 | 0.00 | .15E-06 | 3.328 | .29E-05 | 91.621 | .546E+04 | -174.868 | 3217.678 | 2.552 | .00327 |
| 108. | 3228.429 | 2.534 | .20E-05 | 0.00 | .14E-06 | 3.464 | .29E-05 | 91.693 | .547E+04 | -174.675 | 3217.848 | 2.387 | .00328 |
| 109. | 3228.633 | 2.353 | .20E-05 | 0.00 | .13E-06 | 3.590 | .29E-05 | 91.760 | .548E+04 | -174.497 | 3218.014 | 2.215 | .00329 |
| 110. | 3228.827 | 2.163 | .20E-05 | 0.00 | .12E-06 | 3.706 | .29E-05 | 91.822 | .549E+04 | -174.335 | 3218.172 | 2.036 | .00330 |
| 111. | 3229.011 | 1.968 | .20E-05 | 0.00 | .11E-06 | 3.812 | .29E-05 | 91.879 | .550E+04 | -174.188 | 3218.322 | 1.851 | .00331 |
| 112. | 3229.181 | 1.765 | .20E-05 | 0.00 | .95E-07 | 3.907 | .29E-05 | 91.932 | .551E+04 | -174.057 | 3218.461 | 1.660 | .00332 |
| 113. | 3229.337 | 1.558 | .20E-05 | 0.00 | .84E-07 | 3.992 | .29E-05 | 91.978 | .552E+04 | -173.941 | 3218.587 | 1.464 | .00333 |
| 114. | 3229.476 | 1.345 | .20E-05 | 0.00 | .72E-07 | 4.066 | .29E-05 | 92.019 | .553E+04 | -173.841 | 3218.700 | 1.264 | .00334 |
| 115. | 3229.596 | 1.128 | .20E-05 | 0.00 | .61E-07 | 4.129 | .29E-05 | 92.054 | .553E+04 | -173.757 | 3218.798 | 1.059 | .00334 |
| 116. | 3229.696 | .907 | .20E-05 | 0.00 | .49E-07 | 4.181 | .29E-05 | 92.083 | .554E+04 | -173.688 | 3218.879 | .852 | .00335 |
| 117. | 3229.775 | .683 | .20E-05 | 0.00 | .37E-07 | 4.221 | .29E-05 | 92.106 | .554E+04 | -173.634 | 3218.944 | .641 | .00335 |
| 118. | 3229.833 | .456 | .20E-05 | 0.00 | .25E-07 | 4.250 | .29E-05 | 92.122 | .555E+04 | -173.596 | 3218.991 | .429 | .00336 |
| 119. | 3229.867 | .229 | .20E-05 | 0.00 | .12E-07 | 4.267 | .29E-05 | 92.132 | .555E+04 | -173.573 | 3219.019 | .215 | .00336 |
| 120. | 3229.879 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.135 | .555E+04 | -173.565 | 3219.028 | 0.000 | .00336 |
| 121. | 3229.867 | -.229 | .20E-05 | 0.00 | .12E-07 | -175.733 | .29E-05 | 92.132 | .555E+04 | -173.573 | 3219.019 | -.215 | .00336 |
| 122. | 3229.833 | -.456 | .20E-05 | 0.00 | .25E-07 | -175.750 | .29E-05 | 92.122 | .555E+04 | -173.596 | 3218.991 | -.429 | .00336 |
| 123. | 3229.775 | -.683 | .20E-05 | 0.00 | .37E-07 | -175.779 | .29E-05 | 92.106 | .554E+04 | -173.634 | 3218.944 | -.641 | .00335 |
| 124. | 3229.696 | -.907 | .20E-05 | 0.00 | .49E-07 | -175.819 | .29E-05 | 92.083 | .554E+04 | -173.688 | 3218.879 | -.852 | .00335 |
| 125. | 3229.596 | -1.128 | .20E-05 | 0.00 | .61E-07 | -175.871 | .29E-05 | 92.054 | .553E+04 | -173.757 | 3218.798 | -1.059 | .00334 |
| 126. | 3229.476 | -1.345 | .20E-05 | 0.00 | .72E-07 | -175.934 | .29E-05 | 92.019 | .553E+04 | -173.841 | 3218.700 | -1.264 | .00334 |
| 127. | 3229.337 | -1.558 | .20E-05 | 0.00 | .84E-07 | -176.008 | .29E-05 | 91.978 | .552E+04 | -173.941 | 3218.587 | -1.464 | .00333 |
| 128. | 3229.181 | -1.765 | .20E-05 | 0.00 | .95E-07 | -176.093 | .29E-05 | 91.932 | .551E+04 | -174.057 | 3218.461 | -1.660 | .00332 |
| 129. | 3229.011 | -1.968 | .20E-05 | 0.00 | .11E-06 | -176.188 | .29E-05 | 91.879 | .550E+04 | -174.188 | 3218.322 | -1.851 | .00331 |
| 130. | 3228.827 | -2.163 | .20E-05 | 0.00 | .12E-06 | -176.294 | .29E-05 | 91.822 | .549E+04 | -174.335 | 3218.172 | -2.036 | .00330 |
| 131. | 3228.633 | -2.353 | .20E-05 | 0.00 | .13E-06 | -176.410 | .29E-05 | 91.760 | .548E+04 | -174.497 | 3218.014 | -2.215 | .00329 |
| 132. | 3228.429 | -2.534 | .20E-05 | 0.00 | .14E-06 | -176.536 | .29E-05 | 91.693 | .547E+04 | -174.675 | 3217.848 | -2.387 | .00328 |
| 133. | 3228.220 | -2.708 | .20E-05 | 0.00 | .15E-06 | -176.672 | .29E-05 | 91.621 | .546E+04 | -174.868 | 3217.678 | -2.552 | .00327 |
| 134. | 3228.006 | -2.874 | .20E-05 | 0.00 | .15E-06 | -176.816 | .29E-05 | 91.545 | .545E+04 | -175.076 | 3217.503 | -2.709 | .00325 |
| 135. | 3227.790 | -3.032 | .20E-05 | 0.00 | .16E-06 | -176.970 | .29E-05 | 91.466 | .544E+04 | -175.299 | 3217.328 | -2.859 | .00324 |
| 136. | 3227.575 | -3.180 | .20E-05 | 0.00 | .17E-06 | -177.131 | .29E-05 | 91.383 | .543E+04 | -175.536 | 3217.152 | -3.000 | .00323 |
| 137. | 3227.363 | -3.319 | .20E-05 | 0.00 | .19E-06 | -177.301 | .29E-05 | 91.297 | .542E+04 | -175.788 | 3216.979 | -3.132 | .00322 |
| 138. | 3227.156 | -3.449 | .20E-05 | 0.00 | .18E-06 | -177.478 | .29E-05 | 91.208 | .541E+04 | -176.053 | 3216.811 | -3.256 | .00321 |
| 139. | 3226.956 | -3.569 | .20E-05 | 0.00 | .19E-06 | -177.663 | .29E-05 | 91.116 | .539E+04 | -176.331 | 3216.648 | -3.371 | .00319 |
| 140. | 3226.766 | -3.680 | .20E-05 | 0.00 | .20E-06 | -177.854 | .29E-05 | 91.022 | .538E+04 | -176.622 | 3216.494 | -3.476 | .00318 |
| 141. | 3226.588 | -3.780 | .20E-05 | 0.00 | .20E-06 | -178.051 | .29E-05 | 90.925 | .538E+04 | -176.924 | 3216.348 | -3.572 | .00317 |
| 142. | 3226.423 | -3.870 | .20E-05 | 0.00 | .21E-06 | -178.253 | .29E-05 | 90.827 | .537E+04 | -177.237 | 3216.214 | -3.658 | .00316 |
| 143. | 3226.273 | -3.949 | .20E-05 | 0.00 | .21E-06 | -178.460 | .29E-05 | 90.727 | .536E+04 | -177.560 | 3216.092 | -3.735 | .00316 |
| 144. | 3226.140 | -4.019 | .20E-05 | 0.00 | .21E-06 | -178.672 | .29E-05 | 90.626 | .535E+04 | -177.891 | 3215.983 | -3.801 | .00315 |
| 145. | 3226.025 | -4.077 | .20E-05 | 0.00 | .22E-06 | -178.888 | .29E-05 | 90.523 | .534E+04 | -178.231 | 3215.890 | -3.858 | .00314 |
| 146. | 3225.929 | -4.126 | .20E-05 | 0.00 | .22E-06 | -179.106 | .29E-05 | 90.420 | .534E+04 | -178.577 | 3215.812 | -3.904 | .00314 |
| 147. | 3225.854 | -4.163 | .20E-05 | 0.00 | .22E-06 | -179.327 | .29E-05 | 90.316 | .534E+04 | -178.929 | 3215.750 | -3.940 | .00313 |
| 148. | 3225.799 | -4.190 | .20E-05 | 0.00 | .22E-06 | -179.551 | .29E-05 | 90.211 | .533E+04 | -179.283 | 3215.706 | -3.966 | .00313 |
| 149. | 3225.766 | -4.206 | .20E-05 | 0.00 | .23E-06 | -179.775 | .29E-05 | 90.105 | .533E+04 | -179.641 | 3215.679 | -3.981 | .00313 |

Z-AXIS BOULE LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3225.755 | -4.211 | .20E-05 | 0.00 | .23E-06 | -180.000 | .29E-05 | 90.000 | .533E+04 | -180.000 | 3215.670 | -3.986 | .00313 |
| 151. | 3225.766 | -4.206 | .20E-05 | 0.00 | .23E-06 | 179.775 | .29E-05 | 89.895 | .533E+04 | 179.641 | 3215.679 | -3.981 | .00313 |
| 152. | 3225.799 | -4.190 | .20E-05 | 0.00 | .22E-06 | 179.551 | .29E-05 | 89.789 | .533E+04 | 179.283 | 3215.706 | -3.966 | .00313 |
| 153. | 3225.854 | -4.163 | .20E-05 | 0.00 | .22E-06 | 179.327 | .29E-05 | 89.684 | .534E+04 | 178.928 | 3215.750 | -3.940 | .00313 |
| 154. | 3225.929 | -4.126 | .20E-05 | 0.00 | .22E-06 | 179.106 | .29E-05 | 89.580 | .534E+04 | 178.577 | 3215.812 | -3.904 | .00314 |
| 155. | 3226.025 | -4.077 | .20E-05 | 0.00 | .22E-06 | 178.888 | .29E-05 | 89.477 | .534E+04 | 178.231 | 3215.890 | -3.858 | .00314 |
| 156. | 3226.140 | -4.019 | .20E-05 | 0.00 | .21E-06 | 178.672 | .29E-05 | 89.374 | .535E+04 | 177.891 | 3215.983 | -3.801 | .00315 |
| 157. | 3226.273 | -3.949 | .20E-05 | 0.00 | .21E-06 | 178.460 | .29E-05 | 89.273 | .536E+04 | 177.560 | 3216.092 | -3.735 | .00316 |
| 158. | 3226.423 | -3.870 | .20E-05 | 0.00 | .21E-06 | 178.253 | .29E-05 | 89.173 | .537E+04 | 177.237 | 3216.214 | -3.658 | .00316 |
| 159. | 3226.588 | -3.780 | .20E-05 | 0.00 | .20E-06 | 178.051 | .29E-05 | 89.075 | .538E+04 | 176.924 | 3216.348 | -3.572 | .00317 |
| 160. | 3226.766 | -3.680 | .20E-05 | 0.00 | .20E-06 | 177.854 | .29E-05 | 88.978 | .538E+04 | 176.622 | 3216.494 | -3.476 | .00318 |
| 161. | 3226.956 | -3.569 | .20E-05 | 0.00 | .19E-06 | 177.663 | .29E-05 | 88.884 | .539E+04 | 176.331 | 3216.648 | -3.371 | .00319 |
| 162. | 3227.156 | -3.449 | .20E-05 | 0.00 | .18E-06 | 177.478 | .29E-05 | 88.792 | .541E+04 | 176.053 | 3216.811 | -3.256 | .00321 |
| 163. | 3227.363 | -3.319 | .20E-05 | 0.00 | .18E-06 | 177.301 | .29E-05 | 88.703 | .542E+04 | 175.788 | 3216.979 | -3.132 | .00322 |
| 164. | 3227.575 | -3.180 | .20E-05 | 0.00 | .17E-06 | 177.131 | .29E-05 | 88.617 | .543E+04 | 175.536 | 3217.152 | -3.000 | .00323 |
| 165. | 3227.790 | -3.032 | .20E-05 | 0.00 | .16E-06 | 176.970 | .29E-05 | 88.534 | .544E+04 | 175.299 | 3217.328 | -2.859 | .00324 |
| 166. | 3228.006 | -2.874 | .20E-05 | 0.00 | .15E-06 | 176.816 | .29E-05 | 88.455 | .545E+04 | 175.076 | 3217.503 | -2.709 | .00325 |
| 167. | 3228.220 | -2.708 | .20E-05 | 0.00 | .15E-06 | 176.672 | .29E-05 | 88.379 | .546E+04 | 174.868 | 3217.678 | -2.552 | .00327 |
| 168. | 3228.429 | -2.534 | .20E-05 | 0.00 | .14E-06 | 176.536 | .29E-05 | 88.307 | .547E+04 | 174.675 | 3217.848 | -2.387 | .00328 |
| 169. | 3228.633 | -2.353 | .20E-05 | 0.00 | .13E-06 | 176.410 | .29E-05 | 88.240 | .548E+04 | 174.497 | 3218.014 | -2.215 | .00329 |
| 170. | 3228.827 | -2.163 | .20E-05 | 0.00 | .12E-06 | 176.294 | .29E-05 | 88.178 | .549E+04 | 174.335 | 3218.172 | -2.036 | .00330 |
| 171. | 3229.011 | -1.969 | .20E-05 | 0.00 | .11E-06 | 176.188 | .29E-05 | 88.121 | .550E+04 | 174.188 | 3218.322 | -1.851 | .00331 |
| 172. | 3229.181 | -1.765 | .20E-05 | 0.00 | .95E-07 | 176.093 | .29E-05 | 88.068 | .551E+04 | 174.057 | 3218.461 | -1.660 | .00332 |
| 173. | 3229.337 | -1.558 | .20E-05 | 0.00 | .84E-07 | 176.008 | .29E-05 | 88.022 | .552E+04 | 173.941 | 3218.587 | -1.464 | .00333 |
| 174. | 3229.476 | -1.345 | .20E-05 | 0.00 | .72E-07 | 175.934 | .29E-05 | 87.981 | .553E+04 | 173.841 | 3218.700 | -1.264 | .00334 |
| 175. | 3229.596 | -1.128 | .20E-05 | 0.00 | .61E-07 | 175.871 | .29E-05 | 87.946 | .553E+04 | 173.757 | 3218.798 | -1.059 | .00334 |
| 176. | 3229.696 | -.907 | .20E-05 | 0.00 | .49E-07 | 175.819 | .29E-05 | 87.917 | .554E+04 | 173.688 | 3218.879 | -.852 | .00335 |
| 177. | 3229.775 | -.683 | .20E-05 | 0.00 | .37E-07 | 175.779 | .29E-05 | 87.894 | .554E+04 | 173.634 | 3218.944 | -.641 | .00335 |
| 178. | 3229.833 | -.456 | .20E-05 | 0.00 | .25E-07 | 175.750 | .29E-05 | 87.878 | .555E+04 | 173.596 | 3218.991 | -.429 | .00336 |
| 179. | 3229.867 | -.229 | .20E-05 | 0.00 | .12E-07 | 175.733 | .29E-05 | 87.868 | .555E+04 | 173.573 | 3219.019 | -.215 | .00336 |
| 180. | 3229.879 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 87.865 | .555E+04 | 173.565 | 3219.028 | 0.000 | .00336 |

WITH EULER ANGLES 0 THETA 85 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3314.570 | 5.107 | .22E-05 | 0.00 | .58E-06 | -78.065 | .27E-05 | 100.215 | .678E+04 | 80.450 | 3297.906 | 4.166 | .00503 |
| 1. | 3307.826 | 4.995 | .22E-05 | 0.00 | .58E-06 | -78.293 | .27E-05 | 100.696 | .664E+04 | 79.645 | 3291.882 | 4.092 | .00482 |
| 2. | 3300.936 | 4.863 | .21E-05 | 0.00 | .57E-06 | -78.549 | .27E-05 | 101.132 | .649E+04 | 78.804 | 3285.714 | 4.002 | .00461 |
| 3. | 3293.945 | 4.714 | .21E-05 | 0.00 | .56E-06 | -78.837 | .27E-05 | 101.521 | .634E+04 | 77.925 | 3279.442 | 3.897 | .00440 |
| 4. | 3286.893 | 4.551 | .21E-05 | 0.00 | .55E-06 | -79.158 | .27E-05 | 101.864 | .619E+04 | 77.009 | 3273.103 | 3.779 | .00420 |
| 5. | 3279.815 | 4.377 | .21E-05 | 0.00 | .54E-06 | -79.515 | .27E-05 | 102.161 | .603E+04 | 76.054 | 3266.731 | 3.649 | .00399 |
| 6. | 3272.748 | 4.192 | .21E-05 | 0.00 | .53E-06 | -79.911 | .27E-05 | 102.412 | .588E+04 | 75.059 | 3260.358 | 3.510 | .00379 |
| 7. | 3265.723 | 3.999 | .20E-05 | 0.00 | .52E-06 | -80.348 | .27E-05 | 102.619 | .572E+04 | 74.024 | 3254.013 | 3.363 | .00359 |
| 8. | 3258.769 | 3.801 | .20E-05 | 0.00 | .51E-06 | -80.828 | .27E-05 | 102.781 | .556E+04 | 72.947 | 3247.725 | 3.209 | .00339 |
| 9. | 3251.914 | 3.600 | .20E-05 | 0.00 | .50E-06 | -81.355 | .27E-05 | 102.901 | .540E+04 | 71.827 | 3241.519 | 3.051 | .00320 |
| 10. | 3245.181 | 3.395 | .20E-05 | 0.00 | .48E-06 | -81.930 | .27E-05 | 102.979 | .524E+04 | 70.664 | 3235.419 | 2.888 | .00301 |
| 11. | 3238.594 | 3.191 | .20E-05 | 0.00 | .47E-06 | -82.556 | .27E-05 | 103.016 | .507E+04 | 69.454 | 3229.446 | 2.724 | .00282 |
| 12. | 3232.172 | 2.987 | .20E-05 | 0.00 | .45E-06 | -83.237 | .27E-05 | 103.012 | .491E+04 | 68.197 | 3223.620 | 2.558 | .00265 |
| 13. | 3225.934 | 2.785 | .20E-05 | 0.00 | .44E-06 | -83.976 | .27E-05 | 102.971 | .475E+04 | 66.891 | 3217.959 | 2.393 | .00247 |
| 14. | 3219.897 | 2.585 | .19E-05 | 0.00 | .43E-06 | -84.777 | .27E-05 | 102.891 | .458E+04 | 65.533 | 3212.478 | 2.229 | .00230 |
| 15. | 3214.075 | 2.390 | .19E-05 | 0.00 | .41E-06 | -85.643 | .27E-05 | 102.776 | .442E+04 | 64.121 | 3207.193 | 2.067 | .00214 |
| 16. | 3208.483 | 2.200 | .19E-05 | 0.00 | .40E-06 | -86.580 | .27E-05 | 102.626 | .425E+04 | 62.652 | 3202.117 | 1.907 | .00198 |
| 17. | 3203.131 | 2.016 | .19E-05 | 0.00 | .38E-06 | -87.593 | .27E-05 | 102.442 | .409E+04 | 61.121 | 3197.261 | 1.752 | .00183 |
| 18. | 3198.031 | 1.838 | .19E-05 | 0.00 | .36E-06 | -88.689 | .27E-05 | 102.227 | .392E+04 | 59.525 | 3192.636 | 1.600 | .00169 |
| 19. | 3193.192 | 1.667 | .19E-05 | 0.00 | .35E-06 | -89.875 | .27E-05 | 101.981 | .375E+04 | 57.858 | 3188.250 | 1.454 | .00155 |
| 20. | 3188.621 | 1.503 | .19E-05 | 0.00 | .33E-06 | -91.162 | .27E-05 | 101.706 | .359E+04 | 56.114 | 3184.113 | 1.314 | .00141 |
| 21. | 3184.326 | 1.347 | .18E-05 | 0.00 | .32E-06 | -92.559 | .27E-05 | 101.403 | .342E+04 | 54.286 | 3180.230 | 1.179 | .00129 |
| 22. | 3180.312 | 1.200 | .18E-05 | 0.00 | .30E-06 | -94.080 | .28E-05 | 101.074 | .326E+04 | 52.363 | 3176.609 | 1.051 | .00116 |
| 23. | 3176.585 | 1.061 | .18E-05 | 0.00 | .29E-06 | -95.741 | .28E-05 | 100.722 | .309E+04 | 50.335 | 3173.253 | .931 | .00105 |
| 24. | 3173.149 | .932 | .18E-05 | 0.00 | .27E-06 | -97.562 | .28E-05 | 100.346 | .293E+04 | 48.188 | 3170.167 | .817 | .00094 |
| 25. | 3170.006 | .811 | .18E-05 | 0.00 | .26E-06 | -99.567 | .28E-05 | 99.950 | .276E+04 | 45.904 | 3167.353 | .711 | .00084 |
| 26. | 3167.159 | .700 | .18E-05 | 0.00 | .24E-06 | -101.787 | .28E-05 | 99.535 | .260E+04 | 43.461 | 3164.815 | .613 | .00074 |
| 27. | 3164.610 | .599 | .18E-05 | 0.00 | .23E-06 | -104.258 | .28E-05 | 99.103 | .243E+04 | 40.832 | 3162.553 | .524 | .00065 |
| 28. | 3162.359 | .507 | .18E-05 | 0.00 | .21E-06 | -107.027 | .28E-05 | 98.655 | .227E+04 | 37.980 | 3160.569 | .443 | .00057 |
| 29. | 3160.407 | .426 | .18E-05 | 0.00 | .20E-06 | -110.153 | .28E-05 | 98.193 | .211E+04 | 34.860 | 3158.862 | .370 | .00049 |
| 30. | 3158.753 | .354 | .18E-05 | 0.00 | .18E-06 | -113.707 | .28E-05 | 97.720 | .195E+04 | 31.413 | 3157.432 | .306 | .00042 |
| 31. | 3157.395 | .293 | .18E-05 | 0.00 | .17E-06 | -117.779 | .28E-05 | 97.237 | .180E+04 | 27.561 | 3156.277 | .251 | .00035 |
| 32. | 3156.332 | .241 | .18E-05 | 0.00 | .16E-06 | -122.474 | .28E-05 | 96.746 | .164E+04 | 23.202 | 3155.395 | .205 | .00030 |
| 33. | 3155.562 | .200 | .18E-05 | 0.00 | .14E-06 | -127.913 | .28E-05 | 96.249 | .150E+04 | 18.204 | 3154.784 | .168 | .00025 |
| 34. | 3155.080 | .168 | .18E-05 | 0.00 | .13E-06 | -134.221 | .28E-05 | 95.749 | .136E+04 | 12.395 | 3154.441 | .140 | .00020 |
| 35. | 3154.883 | .147 | .18E-05 | 0.00 | .12E-06 | -141.499 | .28E-05 | 95.246 | .123E+04 | 5.565 | 3154.360 | .121 | .00017 |
| 36. | 3154.967 | .135 | .18E-05 | 0.00 | .12E-06 | -149.784 | .28E-05 | 94.743 | .111E+04 | -2.521 | 3154.537 | .112 | .00014 |
| 37. | 3155.327 | .134 | .18E-05 | 0.00 | .11E-06 | -158.976 | .28E-05 | 94.243 | .102E+04 | -12.069 | 3154.968 | .111 | .00011 |
| 38. | 3155.956 | .142 | .18E-05 | 0.00 | .11E-06 | -168.801 | .28E-05 | 93.746 | .945E+03 | -23.134 | 3155.646 | .119 | .00010 |
| 39. | 3156.849 | .160 | .18E-05 | 0.00 | .11E-06 | -178.918 | .29E-05 | 93.255 | .905E+03 | -35.454 | 3156.565 | .135 | .00009 |
| 40. | 3157.998 | .187 | .18E-05 | 0.00 | .11E-06 | 171.472 | .29E-05 | 92.771 | .902E+03 | -48.752 | 3157.716 | .161 | .00009 |
| 41. | 3159.396 | .224 | .18E-05 | 0.00 | .12E-06 | 162.479 | .29E-05 | 92.297 | .934E+03 | -60.911 | 3159.093 | .194 | .00010 |
| 42. | 3161.035 | .269 | .18E-05 | 0.00 | .13E-06 | 154.440 | .29E-05 | 91.834 | .100E+04 | -72.355 | 3160.687 | .236 | .00011 |
| 43. | 3162.905 | .324 | .18E-05 | 0.00 | .14E-06 | 147.416 | .29E-05 | 91.384 | .109E+04 | -82.305 | 3162.488 | .285 | .00013 |
| 44. | 3164.996 | .386 | .18E-05 | 0.00 | .15E-06 | 141.353 | .29E-05 | 90.948 | .121E+04 | -90.743 | 3164.486 | .342 | .00016 |
| 45. | 3167.299 | .456 | .18E-05 | 0.00 | .16E-06 | 136.140 | .29E-05 | 90.528 | .134E+04 | -97.849 | 3166.672 | .406 | .00020 |
| 46. | 3169.801 | .534 | .18E-05 | 0.00 | .18E-06 | 131.651 | .29E-05 | 90.126 | .148E+04 | -103.857 | 3169.033 | .476 | .00024 |
| 47. | 3172.492 | .619 | .18E-05 | 0.00 | .19E-06 | 127.768 | .29E-05 | 89.742 | .164E+04 | -108.988 | 3171.558 | .552 | .00029 |
| 48. | 3175.358 | .710 | .18E-05 | 0.00 | .20E-06 | 124.388 | .29E-05 | 89.379 | .179E+04 | -113.425 | 3174.235 | .634 | .00035 |
| 49. | 3178.386 | .807 | .18E-05 | 0.00 | .22E-06 | 121.424 | .29E-05 | 89.038 | .196E+04 | -117.311 | 3177.049 | .720 | .00042 |

WITH EULER ANGLES 0 THETA 85 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3181.563 | .909 | .19E-05 | 0.00 | .23E-06 | 118.808 | .29E-05 | 88.718 | .212E+04 | -120.758 | 3179.987 | .811 | .00050 |
| 51. | 3184.872 | 1.015 | .19E-05 | 0.00 | .25E-06 | 116.483 | .29E-05 | 88.423 | .229E+04 | -123.849 | 3183.034 | .904 | .00058 |
| 52. | 3188.299 | 1.124 | .19E-05 | 0.00 | .26E-06 | 114.404 | .29E-05 | 88.152 | .246E+04 | -126.649 | 3186.176 | 1.000 | .00067 |
| 53. | 3191.828 | 1.235 | .19E-05 | 0.00 | .28E-06 | 112.535 | .29E-05 | 87.906 | .263E+04 | -129.210 | 3189.397 | 1.097 | .00076 |
| 54. | 3195.441 | 1.349 | .19E-05 | 0.00 | .29E-06 | 110.845 | .29E-05 | 87.686 | .280E+04 | -131.568 | 3192.680 | 1.195 | .00086 |
| 55. | 3199.120 | 1.462 | .19E-05 | 0.00 | .31E-06 | 109.311 | .29E-05 | 87.492 | .297E+04 | -133.756 | 3196.008 | 1.293 | .00097 |
| 56. | 3202.848 | 1.574 | .19E-05 | 0.00 | .32E-06 | 107.912 | .29E-05 | 87.325 | .314E+04 | -135.798 | 3199.363 | 1.388 | .00109 |
| 57. | 3206.604 | 1.685 | .19E-05 | 0.00 | .33E-06 | 106.634 | .29E-05 | 87.186 | .331E+04 | -137.713 | 3202.729 | 1.481 | .00121 |
| 58. | 3210.370 | 1.792 | .19E-05 | 0.00 | .34E-06 | 105.461 | .29E-05 | 87.074 | .348E+04 | -139.517 | 3206.087 | 1.571 | .00133 |
| 59. | 3214.126 | 1.895 | .20E-05 | 0.00 | .35E-06 | 104.383 | .29E-05 | 86.989 | .365E+04 | -141.224 | 3209.417 | 1.656 | .00147 |
| 60. | 3217.849 | 1.993 | .20E-05 | 0.00 | .36E-06 | 103.390 | .29E-05 | 86.932 | .381E+04 | -142.845 | 3212.701 | 1.735 | .00160 |
| 61. | 3221.520 | 2.083 | .20E-05 | 0.00 | .37E-06 | 102.474 | .29E-05 | 86.903 | .397E+04 | -144.388 | 3215.919 | 1.808 | .00174 |
| 62. | 3225.116 | 2.166 | .20E-05 | 0.00 | .38E-06 | 101.628 | .29E-05 | 86.900 | .413E+04 | -145.861 | 3219.052 | 1.873 | .00188 |
| 63. | 3228.615 | 2.240 | .20E-05 | 0.00 | .39E-06 | 100.847 | .29E-05 | 86.923 | .429E+04 | -147.271 | 3222.081 | 1.929 | .00202 |
| 64. | 3231.995 | 2.303 | .20E-05 | 0.00 | .39E-06 | 100.124 | .29E-05 | 86.973 | .444E+04 | -148.625 | 3224.985 | 1.977 | .00217 |
| 65. | 3235.234 | 2.356 | .20E-05 | 0.00 | .39E-06 | 99.457 | .29E-05 | 87.047 | .459E+04 | -149.926 | 3227.745 | 2.015 | .00231 |
| 66. | 3238.308 | 2.398 | .20E-05 | 0.00 | .40E-06 | 98.840 | .29E-05 | 87.146 | .473E+04 | -151.180 | 3230.342 | 2.044 | .00246 |
| 67. | 3241.195 | 2.427 | .20E-05 | 0.00 | .40E-06 | 98.272 | .29E-05 | 87.268 | .487E+04 | -152.391 | 3232.758 | 2.062 | .00260 |
| 68. | 3243.875 | 2.444 | .20E-05 | 0.00 | .40E-06 | 97.748 | .29E-05 | 87.412 | .500E+04 | -153.561 | 3234.973 | 2.070 | .00274 |
| 69. | 3246.324 | 2.449 | .20E-05 | 0.00 | .39E-06 | 97.267 | .29E-05 | 87.577 | .512E+04 | -154.695 | 3236.972 | 2.067 | .00288 |
| 70. | 3248.523 | 2.442 | .21E-05 | 0.00 | .39E-06 | 96.827 | .29E-05 | 87.760 | .524E+04 | -155.795 | 3238.738 | 2.055 | .00301 |
| 71. | 3250.456 | 2.423 | .21E-05 | 0.00 | .39E-06 | 96.425 | .29E-05 | 87.962 | .535E+04 | -156.865 | 3240.256 | 2.034 | .00314 |
| 72. | 3252.100 | 2.392 | .21E-05 | 0.00 | .38E-06 | 96.061 | .29E-05 | 88.178 | .545E+04 | -157.906 | 3241.513 | 2.003 | .00326 |
| 73. | 3253.442 | 2.352 | .21E-05 | 0.00 | .37E-06 | 95.732 | .29E-05 | 88.409 | .554E+04 | -158.920 | 3242.497 | 1.965 | .00336 |
| 74. | 3254.468 | 2.301 | .21E-05 | 0.00 | .36E-06 | 95.437 | .29E-05 | 88.651 | .562E+04 | -159.911 | 3243.199 | 1.919 | .00346 |
| 75. | 3255.166 | 2.242 | .21E-05 | 0.00 | .35E-06 | 95.175 | .29E-05 | 88.902 | .569E+04 | -160.879 | 3243.611 | 1.867 | .00355 |
| 76. | 3255.529 | 2.175 | .21E-05 | 0.00 | .34E-06 | 94.945 | .29E-05 | 89.160 | .575E+04 | -161.827 | 3243.729 | 1.809 | .00362 |
| 77. | 3255.549 | 2.102 | .21E-05 | 0.00 | .33E-06 | 94.746 | .29E-05 | 89.423 | .580E+04 | -162.757 | 3243.548 | 1.746 | .00369 |
| 78. | 3255.225 | 2.024 | .21E-05 | 0.00 | .32E-06 | 94.576 | .29E-05 | 89.689 | .584E+04 | -163.670 | 3243.070 | 1.680 | .00373 |
| 79. | 3254.556 | 1.942 | .21E-05 | 0.00 | .31E-06 | 94.435 | .29E-05 | 89.954 | .587E+04 | -164.567 | 3242.295 | 1.611 | .00377 |
| 80. | 3253.545 | 1.857 | .21E-05 | 0.00 | .30E-06 | 94.320 | .29E-05 | 90.217 | .589E+04 | -165.450 | 3241.228 | 1.540 | .00379 |
| 81. | 3252.200 | 1.770 | .21E-05 | 0.00 | .28E-06 | 94.233 | .29E-05 | 90.474 | .589E+04 | -166.320 | 3239.876 | 1.467 | .00379 |
| 82. | 3250.529 | 1.683 | .21E-05 | 0.00 | .27E-06 | 94.170 | .29E-05 | 90.724 | .588E+04 | -167.178 | 3238.248 | 1.394 | .00378 |
| 83. | 3248.543 | 1.595 | .21E-05 | 0.00 | .26E-06 | 94.131 | .29E-05 | 90.964 | .586E+04 | -168.025 | 3236.354 | 1.322 | .00375 |
| 84. | 3246.258 | 1.509 | .21E-05 | 0.00 | .25E-06 | 94.115 | .29E-05 | 91.193 | .583E+04 | -168.862 | 3234.207 | 1.249 | .00371 |
| 85. | 3243.690 | 1.423 | .21E-05 | 0.00 | .24E-06 | 94.120 | .29E-05 | 91.407 | .579E+04 | -169.689 | 3231.821 | 1.178 | .00366 |
| 86. | 3240.858 | 1.340 | .21E-05 | 0.00 | .23E-06 | 94.145 | .29E-05 | 91.605 | .574E+04 | -170.507 | 3229.214 | 1.108 | .00359 |
| 87. | 3237.781 | 1.258 | .21E-05 | 0.00 | .21E-06 | 94.188 | .29E-05 | 91.786 | .567E+04 | -171.316 | 3226.402 | 1.040 | .00351 |
| 88. | 3234.482 | 1.179 | .21E-05 | 0.00 | .20E-06 | 94.248 | .29E-05 | 91.947 | .560E+04 | -172.116 | 3223.403 | .974 | .00343 |
| 89. | 3230.984 | 1.103 | .20E-05 | 0.00 | .19E-06 | 94.323 | .29E-05 | 92.087 | .552E+04 | -172.908 | 3220.236 | .910 | .00333 |
| 90. | 3227.310 | 1.030 | .20E-05 | 0.00 | .18E-06 | 94.411 | .29E-05 | 92.205 | .543E+04 | -173.690 | 3216.922 | .848 | .00322 |
| 91. | 3223.484 | .959 | .20E-05 | 0.00 | .18E-06 | 94.510 | .29E-05 | 92.299 | .533E+04 | -174.462 | 3213.481 | .788 | .00310 |
| 92. | 3219.530 | .891 | .20E-05 | 0.00 | .17E-06 | 94.618 | .29E-05 | 92.369 | .522E+04 | -175.224 | 3209.934 | .731 | .00298 |
| 93. | 3215.475 | .827 | .20E-05 | 0.00 | .16E-06 | 94.732 | .29E-05 | 92.414 | .511E+04 | -175.974 | 3206.301 | .675 | .00285 |
| 94. | 3211.340 | .765 | .20E-05 | 0.00 | .15E-06 | 94.850 | .29E-05 | 92.433 | .499E+04 | -176.711 | 3202.603 | .623 | .00272 |
| 95. | 3207.152 | .706 | .20E-05 | 0.00 | .14E-06 | 94.968 | .29E-05 | 92.425 | .486E+04 | -177.433 | 3198.861 | .572 | .00259 |
| 96. | 3202.934 | .649 | .20E-05 | 0.00 | .14E-06 | 95.085 | .29E-05 | 92.390 | .473E+04 | -178.137 | 3195.096 | .524 | .00245 |
| 97. | 3198.709 | .595 | .20E-05 | 0.00 | .13E-06 | 95.195 | .29E-05 | 92.328 | .459E+04 | -178.822 | 3191.326 | .477 | .00231 |
| 98. | 3194.499 | .544 | .20E-05 | 0.00 | .12E-06 | 95.296 | .29E-05 | 92.240 | .445E+04 | -179.482 | 3187.572 | .433 | .00217 |
| 99. | 3190.326 | .495 | .19E-05 | 0.00 | .12E-06 | 95.383 | .29E-05 | 92.124 | .431E+04 | 179.884 | 3183.853 | .391 | .00203 |

WITH EULER ANGLES 0 THETA 85 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3186.212 | .449 | .19E-05 | 0.00 | .11E-06 | 95.453 | .29E-05 | 91.981 | .416E+04 | 179.283 | 3180.187 | .351 | .00189 |
| 101. | 3182.176 | .405 | .19E-05 | 0.00 | .11E-06 | 95.500 | .29E-05 | 91.813 | .400E+04 | 178.721 | 3176.592 | .313 | .00175 |
| 102. | 3178.238 | .363 | .19E-05 | 0.00 | .10E-06 | 95.522 | .29E-05 | 91.618 | .385E+04 | 178.203 | 3173.085 | .277 | .00162 |
| 103. | 3174.416 | .323 | .19E-05 | 0.00 | .99E-07 | 95.512 | .29E-05 | 91.397 | .369E+04 | 177.737 | 3169.683 | .243 | .00149 |
| 104. | 3170.727 | .285 | .19E-05 | 0.00 | .95E-07 | 95.466 | .29E-05 | 91.153 | .353E+04 | 177.335 | 3166.401 | .210 | .00136 |
| 105. | 3167.188 | .249 | .19E-05 | 0.00 | .91E-07 | 95.379 | .29E-05 | 90.884 | .337E+04 | 177.007 | 3163.254 | .180 | .00124 |
| 106. | 3163.815 | .215 | .19E-05 | 0.00 | .87E-07 | 95.246 | .29E-05 | 90.592 | .321E+04 | 176.767 | 3160.257 | .151 | .00112 |
| 107. | 3160.623 | .183 | .19E-05 | 0.00 | .84E-07 | 95.062 | .28E-05 | 90.279 | .304E+04 | 176.633 | 3157.423 | .123 | .00101 |
| 108. | 3157.625 | .153 | .18E-05 | 0.00 | .80E-07 | 94.821 | .28E-05 | 89.944 | .288E+04 | 176.626 | 3154.765 | .098 | .00091 |
| 109. | 3154.834 | .125 | .18E-05 | 0.00 | .78E-07 | 94.519 | .28E-05 | 89.590 | .271E+04 | 176.771 | 3152.295 | .074 | .00080 |
| 110. | 3152.263 | .098 | .18E-05 | 0.00 | .75E-07 | 94.149 | .28E-05 | 89.218 | .255E+04 | 177.101 | 3150.025 | .051 | .00071 |
| 111. | 3149.923 | .074 | .18E-05 | 0.00 | .72E-07 | 93.706 | .28E-05 | 88.829 | .238E+04 | 177.654 | 3147.965 | .030 | .00062 |
| 112. | 3147.825 | .051 | .18E-05 | 0.00 | .69E-07 | 93.184 | .28E-05 | 88.425 | .222E+04 | 178.483 | 3146.125 | .011 | .00054 |
| 113. | 3145.978 | .030 | .18E-05 | 0.00 | .67E-07 | 92.577 | .28E-05 | 88.006 | .206E+04 | 179.649 | 3144.515 | -.006 | .00047 |
| 114. | 3144.392 | .010 | .18E-05 | 0.00 | .64E-07 | 91.879 | .28E-05 | 87.575 | .190E+04 | -178.766 | 3143.143 | -.023 | .00040 |
| 115. | 3143.076 | -.008 | .18E-05 | 0.00 | .62E-07 | 91.080 | .28E-05 | 87.134 | .175E+04 | -176.663 | 3142.017 | -.037 | .00034 |
| 116. | 3142.036 | -.024 | .18E-05 | 0.00 | .60E-07 | 90.175 | .28E-05 | 86.683 | .161E+04 | -173.916 | 3141.145 | -.050 | .00028 |
| 117. | 3141.281 | -.038 | .18E-05 | 0.00 | .58E-07 | 89.152 | .28E-05 | 86.225 | .147E+04 | -170.377 | 3140.534 | -.061 | .00024 |
| 118. | 3140.816 | -.051 | .18E-05 | 0.00 | .55E-07 | 88.001 | .28E-05 | 85.761 | .135E+04 | -165.879 | 3140.189 | -.071 | .00020 |
| 119. | 3140.648 | -.061 | .18E-05 | 0.00 | .53E-07 | 86.708 | .28E-05 | 85.294 | .124E+04 | -160.268 | 3140.117 | -.080 | .00017 |
| 120. | 3140.782 | -.070 | .18E-05 | 0.00 | .51E-07 | 85.259 | .28E-05 | 84.825 | .116E+04 | -153.456 | 3140.322 | -.086 | .00015 |
| 121. | 3141.222 | -.078 | .18E-05 | 0.00 | .49E-07 | 83.633 | .28E-05 | 84.356 | .110E+04 | -145.512 | 3140.809 | -.091 | .00013 |
| 122. | 3141.973 | -.083 | .18E-05 | 0.00 | .47E-07 | 81.808 | .28E-05 | 83.889 | .107E+04 | -136.753 | 3141.581 | -.095 | .00012 |
| 123. | 3143.038 | -.087 | .18E-05 | 0.00 | .45E-07 | 79.754 | .28E-05 | 83.426 | .107E+04 | -127.732 | 3142.641 | -.096 | .00013 |
| 124. | 3144.420 | -.088 | .18E-05 | 0.00 | .43E-07 | 77.434 | .28E-05 | 82.968 | .111E+04 | -119.095 | 3143.993 | -.097 | .00014 |
| 125. | 3146.121 | -.088 | .18E-05 | 0.00 | .41E-07 | 74.804 | .28E-05 | 82.518 | .118E+04 | -111.351 | 3145.638 | -.095 | .00015 |
| 126. | 3148.143 | -.086 | .18E-05 | 0.00 | .39E-07 | 71.807 | .28E-05 | 82.077 | .128E+04 | -104.762 | 3147.577 | -.092 | .00018 |
| 127. | 3150.486 | -.082 | .18E-05 | 0.00 | .37E-07 | 68.370 | .28E-05 | 81.648 | .140E+04 | -99.353 | 3149.811 | -.087 | .00021 |
| 128. | 3153.152 | -.076 | .18E-05 | 0.00 | .35E-07 | 64.409 | .28E-05 | 81.232 | .153E+04 | -95.017 | 3152.340 | -.080 | .00026 |
| 129. | 3156.140 | -.068 | .18E-05 | 0.00 | .33E-07 | 59.816 | .28E-05 | 80.832 | .168E+04 | -91.593 | 3155.162 | -.071 | .00031 |
| 130. | 3159.448 | -.058 | .18E-05 | 0.00 | .31E-07 | 54.474 | .28E-05 | 80.448 | .184E+04 | -88.917 | 3158.278 | -.061 | .00037 |
| 131. | 3163.075 | -.045 | .18E-05 | 0.00 | .29E-07 | 48.257 | .28E-05 | 80.083 | .200E+04 | -86.846 | 3161.683 | -.048 | .00044 |
| 132. | 3167.018 | -.031 | .19E-05 | 0.00 | .28E-07 | 41.062 | .28E-05 | 79.738 | .218E+04 | -85.259 | 3165.375 | -.034 | .00052 |
| 133. | 3171.273 | -.013 | .19E-05 | 0.00 | .27E-07 | 32.854 | .27E-05 | 79.416 | .235E+04 | -84.060 | 3169.350 | -.017 | .00061 |
| 134. | 3175.837 | .006 | .19E-05 | 0.00 | .27E-07 | 23.725 | .27E-05 | 79.118 | .254E+04 | -83.175 | 3173.602 | .001 | .00070 |
| 135. | 3180.703 | .029 | .19E-05 | 0.00 | .27E-07 | 13.950 | .27E-05 | 78.845 | .272E+04 | -82.541 | 3178.126 | .022 | .00081 |
| 136. | 3185.865 | .054 | .19E-05 | 0.00 | .28E-07 | 3.969 | .27E-05 | 78.600 | .291E+04 | -82.113 | 3182.914 | .046 | .00093 |
| 137. | 3191.314 | .081 | .19E-05 | 0.00 | .29E-07 | -5.717 | .27E-05 | 78.384 | .310E+04 | -81.850 | 3187.958 | .071 | .00105 |
| 138. | 3197.043 | .113 | .19E-05 | 0.00 | .32E-07 | -14.692 | .27E-05 | 78.198 | .329E+04 | -81.723 | 3193.248 | .100 | .00119 |
| 139. | 3203.040 | .147 | .20E-05 | 0.00 | .35E-07 | -22.714 | .27E-05 | 78.045 | .349E+04 | -81.708 | 3198.773 | .131 | .00133 |
| 140. | 3209.292 | .185 | .20E-05 | 0.00 | .40E-07 | -29.716 | .27E-05 | 77.926 | .369E+04 | -81.783 | 3204.521 | .165 | .00149 |
| 141. | 3215.787 | .226 | .20E-05 | 0.00 | .45E-07 | -35.751 | .27E-05 | 77.842 | .389E+04 | -81.933 | 3210.476 | .202 | .00165 |
| 142. | 3222.508 | .272 | .20E-05 | 0.00 | .50E-07 | -40.928 | .27E-05 | 77.794 | .409E+04 | -82.144 | 3216.624 | .242 | .00183 |
| 143. | 3229.438 | .322 | .20E-05 | 0.00 | .57E-07 | -45.374 | .27E-05 | 77.785 | .429E+04 | -82.404 | 3222.946 | .287 | .00201 |
| 144. | 3236.557 | .377 | .20E-05 | 0.00 | .64E-07 | -49.206 | .27E-05 | 77.816 | .450E+04 | -82.704 | 3229.422 | .335 | .00220 |
| 145. | 3243.842 | .437 | .21E-05 | 0.00 | .72E-07 | -52.527 | .27E-05 | 77.888 | .470E+04 | -83.036 | 3236.031 | .387 | .00241 |
| 146. | 3251.268 | .503 | .21E-05 | 0.00 | .80E-07 | -55.422 | .27E-05 | 78.002 | .490E+04 | -83.393 | 3242.749 | .444 | .00262 |
| 147. | 3258.808 | .576 | .21E-05 | 0.00 | .90E-07 | -57.961 | .27E-05 | 78.159 | .511E+04 | -83.770 | 3249.549 | .506 | .00284 |
| 148. | 3266.432 | .655 | .21E-05 | 0.00 | .10E-06 | -60.200 | .27E-05 | 78.362 | .531E+04 | -84.161 | 3256.401 | .573 | .00307 |
| 149. | 3274.105 | .742 | .21E-05 | 0.00 | .11E-06 | -62.182 | .27E-05 | 78.609 | .552E+04 | -84.563 | 3263.275 | .646 | .00331 |

WITH EULER ANGLES 0 THETA 85 LITHIUM TANTALATE (WAPNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3281.791 | .837 | .22E-05 | 0.00 | .12E-06 | -63.945 | .27E-05 | 78.904 | .572E+04 | -84.971 | 3270.137 | .726 | .00355 |
| 151. | 3289.449 | .942 | .22E-05 | 0.00 | .14E-06 | -65.516 | .27E-05 | 79.246 | .592E+04 | -85.384 | 3276.949 | .813 | .00380 |
| 152. | 3297.036 | 1.056 | .22E-05 | 0.00 | .15E-06 | -66.920 | .27E-05 | 79.635 | .611E+04 | -85.798 | 3283.673 | .907 | .00405 |
| 153. | 3304.505 | 1.181 | .22E-05 | 0.00 | .17E-06 | -68.176 | .27E-05 | 80.073 | .631E+04 | -86.213 | 3290.266 | 1.009 | .00431 |
| 154. | 3311.805 | 1.318 | .22E-05 | 0.00 | .18E-06 | -69.299 | .27E-05 | 80.559 | .650E+04 | -86.626 | 3296.686 | 1.119 | .00457 |
| 155. | 3318.884 | 1.467 | .23E-05 | 0.00 | .20E-06 | -70.304 | .28E-05 | 81.092 | .668E+04 | -87.036 | 3302.887 | 1.239 | .00482 |
| 156. | 3325.685 | 1.629 | .23E-05 | 0.00 | .22E-06 | -71.201 | .28E-05 | 81.673 | .685E+04 | -87.443 | 3308.821 | 1.367 | .00507 |
| 157. | 3332.152 | 1.805 | .23E-05 | 0.00 | .24E-06 | -72.001 | .28E-05 | 82.299 | .702E+04 | -87.847 | 3314.441 | 1.506 | .00532 |
| 158. | 3338.226 | 1.995 | .23E-05 | 0.00 | .26E-06 | -72.711 | .28E-05 | 82.970 | .718E+04 | -88.247 | 3319.698 | 1.654 | .00555 |
| 159. | 3343.847 | 2.198 | .23E-05 | 0.00 | .28E-06 | -73.340 | .28E-05 | 83.682 | .732E+04 | -88.644 | 3324.545 | 1.811 | .00577 |
| 160. | 3348.959 | 2.415 | .23E-05 | 0.00 | .30E-06 | -73.894 | .28E-05 | 84.434 | .745E+04 | -89.039 | 3328.937 | 1.977 | .00598 |
| 161. | 3353.507 | 2.643 | .24E-05 | 0.00 | .32E-06 | -74.381 | .28E-05 | 85.221 | .757E+04 | -89.434 | 3332.829 | 2.152 | .00617 |
| 162. | 3357.439 | 2.882 | .24E-05 | 0.00 | .35E-06 | -74.805 | .28E-05 | 86.041 | .767E+04 | -89.829 | 3336.182 | 2.333 | .00633 |
| 163. | 3360.712 | 3.129 | .24E-05 | 0.00 | .37E-06 | -75.174 | .28E-05 | 86.887 | .776E+04 | -90.226 | 3338.962 | 2.519 | .00647 |
| 164. | 3363.287 | 3.380 | .24E-05 | 0.00 | .40E-06 | -75.493 | .28E-05 | 87.756 | .783E+04 | -90.628 | 3341.139 | 2.709 | .00659 |
| 165. | 3365.135 | 3.632 | .24E-05 | 0.00 | .42E-06 | -75.768 | .28E-05 | 88.642 | .788E+04 | -91.037 | 3342.691 | 2.900 | .00667 |
| 166. | 3366.238 | 3.882 | .24E-05 | 0.00 | .44E-06 | -76.004 | .28E-05 | 89.538 | .790E+04 | -91.456 | 3343.604 | 3.088 | .00672 |
| 167. | 3366.586 | 4.123 | .24E-05 | 0.00 | .46E-06 | -76.207 | .27E-05 | 90.439 | .792E+04 | -91.886 | 3343.870 | 3.272 | .00675 |
| 168. | 3366.182 | 4.353 | .24E-05 | 0.00 | .48E-06 | -76.382 | .27E-05 | 91.339 | .791E+04 | -92.330 | 3343.490 | 3.448 | .00674 |
| 169. | 3365.039 | 4.565 | .24E-05 | 0.00 | .50E-06 | -76.535 | .27E-05 | 92.232 | .788E+04 | -92.791 | 3342.475 | 3.613 | .00671 |
| 170. | 3363.179 | 4.756 | .24E-05 | 0.00 | .52E-06 | -76.670 | .27E-05 | 93.111 | .784E+04 | -93.272 | 3340.841 | 3.764 | .00664 |
| 171. | 3360.634 | 4.923 | .23E-05 | 0.00 | .54E-06 | -76.793 | .27E-05 | 93.971 | .778E+04 | -93.774 | 3338.611 | 3.899 | .00655 |
| 172. | 3357.442 | 5.062 | .23E-05 | 0.00 | .55E-06 | -76.908 | .27E-05 | 94.808 | .771E+04 | -94.299 | 3335.816 | 4.015 | .00644 |
| 173. | 3353.648 | 5.172 | .23E-05 | 0.00 | .56E-06 | -77.021 | .27E-05 | 95.617 | .763E+04 | -94.850 | 3332.491 | 4.111 | .00631 |
| 174. | 3349.302 | 5.251 | .23E-05 | 0.00 | .57E-06 | -77.135 | .27E-05 | 96.393 | .753E+04 | -95.429 | 3328.674 | 4.185 | .00616 |
| 175. | 3344.454 | 5.299 | .23E-05 | 0.00 | .58E-06 | -77.254 | .27E-05 | 97.133 | .742E+04 | -96.036 | 3324.409 | 4.236 | .00599 |
| 176. | 3339.159 | 5.317 | .23E-05 | 0.00 | .58E-06 | -77.383 | .27E-05 | 97.835 | .731E+04 | -96.674 | 3319.738 | 4.266 | .00582 |
| 177. | 3333.471 | 5.305 | .22E-05 | 0.00 | .59E-06 | -77.526 | .27E-05 | 98.496 | .719E+04 | -97.343 | 3314.708 | 4.272 | .00563 |
| 178. | 3327.442 | 5.264 | .22E-05 | 0.00 | .59E-06 | -77.685 | .27E-05 | 99.113 | .706E+04 | -98.045 | 3309.363 | 4.257 | .00543 |
| 179. | 3321.125 | 5.198 | .22E-05 | 0.00 | .58E-06 | -77.863 | .27E-05 | 99.687 | .692E+04 | -98.780 | 3303.747 | 4.221 | .00523 |
| 180. | 3314.570 | 5.107 | .22E-05 | 0.00 | .58E-06 | -78.065 | .27E-05 | 100.215 | .678E+04 | -99.550 | 3297.906 | 4.166 | .00503 |

WITH EULER ANGLES 0 THETA 95 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3314.570 | -5.107 | .22E-05 | 0.00 | .58E-06 | 101.935 | .27E-05 | 100.215 | .678E+04 | 80.450 | 3297.906 | -4.166 | .00503 |
| 1. | 3307.826 | -4.995 | .22E-05 | 0.00 | .58E-06 | 101.707 | .27E-05 | 100.696 | .664E+04 | 79.645 | 3291.882 | -4.092 | .00482 |
| 2. | 3300.936 | -4.863 | .21E-05 | 0.00 | .57E-06 | 101.451 | .27E-05 | 101.132 | .649E+04 | 78.804 | 3285.714 | -4.002 | .00461 |
| 3. | 3293.945 | -4.714 | .21E-05 | 0.00 | .56E-06 | 101.163 | .27E-05 | 101.521 | .634E+04 | 77.925 | 3279.442 | -3.897 | .00440 |
| 4. | 3286.893 | -4.551 | .21E-05 | 0.00 | .55E-06 | 100.842 | .27E-05 | 101.864 | .619E+04 | 77.009 | 3273.103 | -3.779 | .00420 |
| 5. | 3279.815 | -4.377 | .21E-05 | 0.00 | .54E-06 | 100.485 | .27E-05 | 102.161 | .603E+04 | 76.054 | 3266.731 | -3.649 | .00399 |
| 6. | 3272.748 | -4.192 | .21E-05 | 0.00 | .53E-06 | 100.089 | .27E-05 | 102.412 | .588E+04 | 75.059 | 3260.358 | -3.510 | .00379 |
| 7. | 3265.723 | -3.999 | .20E-05 | 0.00 | .52E-06 | 99.652 | .27E-05 | 102.619 | .572E+04 | 74.024 | 3254.013 | -3.363 | .00359 |
| 8. | 3258.769 | -3.801 | .20E-05 | 0.00 | .51E-06 | 99.172 | .27E-05 | 102.781 | .556E+04 | 72.947 | 3247.725 | -3.209 | .00339 |
| 9. | 3251.914 | -3.600 | .20E-05 | 0.00 | .50E-06 | 98.645 | .27E-05 | 102.901 | .540E+04 | 71.827 | 3241.519 | -3.051 | .00320 |
| 10. | 3245.181 | -3.395 | .20E-05 | 0.00 | .48E-06 | 98.070 | .27E-05 | 102.979 | .524E+04 | 70.664 | 3235.419 | -2.888 | .00301 |
| 11. | 3238.594 | -3.191 | .20E-05 | 0.00 | .47E-06 | 97.444 | .27E-05 | 103.016 | .507E+04 | 69.454 | 3229.446 | -2.724 | .00282 |
| 12. | 3232.172 | -2.987 | .20E-05 | 0.00 | .45E-06 | 96.763 | .27E-05 | 103.012 | .491E+04 | 68.197 | 3223.620 | -2.558 | .00265 |
| 13. | 3225.934 | -2.785 | .20E-05 | 0.00 | .44E-06 | 96.024 | .27E-05 | 102.971 | .475E+04 | 66.891 | 3217.959 | -2.393 | .00247 |
| 14. | 3219.897 | -2.585 | .19E-05 | 0.00 | .43E-06 | 95.223 | .27E-05 | 102.891 | .458E+04 | 65.533 | 3212.478 | -2.229 | .00230 |
| 15. | 3214.075 | -2.390 | .19E-05 | 0.00 | .41E-06 | 94.357 | .27E-05 | 102.776 | .442E+04 | 64.121 | 3207.193 | -2.067 | .00214 |
| 16. | 3208.483 | -2.200 | .19E-05 | 0.00 | .40E-06 | 93.420 | .27E-05 | 102.626 | .425E+04 | 62.652 | 3202.117 | -1.907 | .00198 |
| 17. | 3203.131 | -2.016 | .19E-05 | 0.00 | .38E-06 | 92.407 | .27E-05 | 102.442 | .409E+04 | 61.121 | 3197.261 | -1.752 | .00183 |
| 18. | 3198.031 | -1.838 | .19E-05 | 0.00 | .36E-06 | 91.311 | .27E-05 | 102.227 | .392E+04 | 59.525 | 3192.636 | -1.600 | .00169 |
| 19. | 3193.192 | -1.667 | .19E-05 | 0.00 | .35E-06 | 90.125 | .27E-05 | 101.981 | .375E+04 | 57.858 | 3188.250 | -1.454 | .00155 |
| 20. | 3188.621 | -1.503 | .19E-05 | 0.00 | .33E-06 | 88.838 | .27E-05 | 101.706 | .359E+04 | 56.114 | 3184.113 | -1.314 | .00141 |
| 21. | 3184.326 | -1.347 | .18E-05 | 0.00 | .32E-06 | 87.441 | .27E-05 | 101.403 | .342E+04 | 54.286 | 3180.230 | -1.179 | .00129 |
| 22. | 3180.312 | -1.200 | .18E-05 | 0.00 | .30E-06 | 85.920 | .28E-05 | 101.074 | .326E+04 | 52.363 | 3176.609 | -1.051 | .00116 |
| 23. | 3176.585 | -1.061 | .18E-05 | 0.00 | .29E-06 | 84.259 | .28E-05 | 100.722 | .309E+04 | 50.335 | 3173.253 | -.931 | .00105 |
| 24. | 3173.149 | -.932 | .18E-05 | 0.00 | .27E-06 | 82.439 | .28E-05 | 100.346 | .293E+04 | 48.188 | 3170.167 | -.817 | .00094 |
| 25. | 3170.006 | -.811 | .18E-05 | 0.00 | .26E-06 | 80.433 | .28E-05 | 99.950 | .276E+04 | 45.904 | 3167.353 | -.711 | .00084 |
| 26. | 3167.159 | -.700 | .18E-05 | 0.00 | .24E-06 | 78.213 | .28E-05 | 99.535 | .260E+04 | 43.461 | 3164.815 | -.613 | .00074 |
| 27. | 3164.610 | -.599 | .18E-05 | 0.00 | .23E-06 | 75.742 | .28E-05 | 99.103 | .243E+04 | 40.832 | 3162.553 | -.524 | .00065 |
| 28. | 3162.359 | -.507 | .18E-05 | 0.00 | .21E-06 | 72.973 | .28E-05 | 98.655 | .227E+04 | 37.980 | 3160.569 | -.443 | .00057 |
| 29. | 3160.407 | -.426 | .18E-05 | 0.00 | .20E-06 | 69.847 | .28E-05 | 98.193 | .211E+04 | 34.860 | 3158.862 | -.370 | .00049 |
| 30. | 3158.753 | -.354 | .18E-05 | 0.00 | .18E-06 | 66.293 | .28E-05 | 97.720 | .195E+04 | 31.413 | 3157.432 | -.306 | .00042 |
| 31. | 3157.395 | -.293 | .18E-05 | 0.00 | .17E-06 | 62.221 | .28E-05 | 97.237 | .180E+04 | 27.561 | 3156.277 | -.251 | .00035 |
| 32. | 3156.332 | -.241 | .18E-05 | 0.00 | .16E-06 | 57.526 | .28E-05 | 96.746 | .164E+04 | 23.202 | 3155.395 | -.205 | .00030 |
| 33. | 3155.562 | -.200 | .18E-05 | 0.00 | .14E-06 | 52.087 | .28E-05 | 96.249 | .150E+04 | 18.204 | 3154.784 | -.168 | .00025 |
| 34. | 3155.080 | -.168 | .18E-05 | 0.00 | .13E-06 | 45.779 | .28E-05 | 95.749 | .136E+04 | 12.395 | 3154.441 | -.140 | .00020 |
| 35. | 3154.883 | -.147 | .18E-05 | 0.00 | .12E-06 | 38.501 | .28E-05 | 95.246 | .123E+04 | 5.565 | 3154.360 | -.121 | .00017 |
| 36. | 3154.967 | -.135 | .18E-05 | 0.00 | .12E-06 | 30.216 | .28E-05 | 94.743 | .111E+04 | -2.521 | 3154.537 | -.112 | .00014 |
| 37. | 3155.327 | -.134 | .18E-05 | 0.00 | .11E-06 | 21.024 | .28E-05 | 94.243 | .102E+04 | -12.069 | 3154.968 | -.111 | .00011 |
| 38. | 3155.956 | -.142 | .18E-05 | 0.00 | .11E-06 | 11.199 | .28E-05 | 93.746 | .945E+03 | -23.134 | 3155.646 | -.119 | .00010 |
| 39. | 3156.849 | -.160 | .18E-05 | 0.00 | .11E-06 | 1.182 | .29E-05 | 93.255 | .905E+03 | -35.454 | 3156.565 | -.135 | .00009 |
| 40. | 3157.998 | -.187 | .18E-05 | 0.00 | .11E-06 | -8.528 | .29E-05 | 92.771 | .902E+03 | -48.352 | 3157.716 | -.161 | .00009 |
| 41. | 3159.396 | -.224 | .18E-05 | 0.00 | .12E-06 | -17.521 | .29E-05 | 92.297 | .934E+03 | -60.911 | 3159.093 | -.194 | .00010 |
| 42. | 3161.035 | -.269 | .18E-05 | 0.00 | .13E-06 | -25.560 | .29E-05 | 91.834 | .100E+04 | -72.355 | 3160.687 | -.236 | .00011 |
| 43. | 3162.905 | -.324 | .18E-05 | 0.00 | .14E-06 | -32.584 | .29E-05 | 91.384 | .109E+04 | -82.305 | 3162.488 | -.285 | .00013 |
| 44. | 3164.996 | -.386 | .18E-05 | 0.00 | .15E-06 | -38.647 | .29E-05 | 90.948 | .121E+04 | -90.743 | 3164.486 | -.342 | .00016 |
| 45. | 3167.299 | -.456 | .18E-05 | 0.00 | .16E-06 | -43.860 | .29E-05 | 90.528 | .134E+04 | -97.849 | 3166.672 | -.406 | .00020 |
| 46. | 3169.801 | -.534 | .18E-05 | 0.00 | .18E-06 | -48.349 | .29E-05 | 90.126 | .148E+04 | -103.857 | 3169.033 | -.476 | .00024 |
| 47. | 3172.492 | -.619 | .18E-05 | 0.00 | .19E-06 | -52.232 | .29E-05 | 89.742 | .164E+04 | -108.988 | 3171.558 | -.552 | .00029 |
| 48. | 3175.358 | -.710 | .18E-05 | 0.00 | .20E-06 | -55.612 | .29E-05 | 89.379 | .179E+04 | -113.425 | 3174.235 | -.634 | .00035 |
| 49. | 3178.386 | -.807 | .18E-05 | 0.00 | .22E-06 | -58.576 | .29E-05 | 89.038 | .196E+04 | -117.311 | 3177.049 | -.720 | .00042 |

WITH EULER ANGLES 0 THETA 95 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3181.563 | -.909 | .19E-05 | 0.00 | .23E-06 | -61.192 | .29E-05 | 88.718 | .212E+04 | -120.758 | 3179.987 | -.811 | .00050 |
| 51. | 3184.872 | -1.015 | .19E-05 | 0.00 | .25E-06 | -63.517 | .29E-05 | 88.423 | .229E+04 | -123.849 | 3183.034 | -.904 | .00058 |
| 52. | 3188.299 | -1.124 | .19E-05 | 0.00 | .26E-06 | -65.596 | .29E-05 | 88.152 | .246E+04 | -126.649 | 3186.176 | -1.000 | .00067 |
| 53. | 3191.828 | -1.235 | .19E-05 | 0.00 | .28E-06 | -67.465 | .29E-05 | 87.906 | .263E+04 | -129.210 | 3189.397 | -1.097 | .00076 |
| 54. | 3195.441 | -1.349 | .19E-05 | 0.00 | .29E-06 | -69.155 | .29E-05 | 87.686 | .280E+04 | -131.568 | 3192.680 | -1.195 | .00086 |
| 55. | 3199.120 | -1.462 | .19E-05 | 0.00 | .31E-06 | -70.689 | .29E-05 | 87.492 | .297E+04 | -133.756 | 3196.008 | -1.293 | .00097 |
| 56. | 3202.848 | -1.574 | .19E-05 | 0.00 | .32E-06 | -72.088 | .29E-05 | 87.325 | .314E+04 | -135.798 | 3199.363 | -1.388 | .00109 |
| 57. | 3206.604 | -1.685 | .19E-05 | 0.00 | .33E-06 | -73.366 | .29E-05 | 87.186 | .331E+04 | -137.713 | 3202.729 | -1.481 | .00121 |
| 58. | 3210.370 | -1.792 | .19E-05 | 0.00 | .34E-06 | -74.539 | .29E-05 | 87.074 | .348E+04 | -139.517 | 3206.087 | -1.571 | .00133 |
| 59. | 3214.126 | -1.895 | .20E-05 | 0.00 | .35E-06 | -75.617 | .29E-05 | 86.989 | .365E+04 | -141.224 | 3209.417 | -1.656 | .00147 |
| 60. | 3217.849 | -1.993 | .20E-05 | 0.00 | .36E-06 | -76.610 | .29E-05 | 86.932 | .381E+04 | -142.845 | 3212.701 | -1.735 | .00160 |
| 61. | 3221.520 | -2.083 | .20E-05 | 0.00 | .37E-06 | -77.526 | .29E-05 | 86.903 | .397E+04 | -144.388 | 3215.919 | -1.808 | .00174 |
| 62. | 3225.115 | -2.166 | .20E-05 | 0.00 | .38E-06 | -78.372 | .29E-05 | 86.900 | .413E+04 | -145.861 | 3219.052 | -1.873 | .00188 |
| 63. | 3228.615 | -2.240 | .20E-05 | 0.00 | .39E-06 | -79.153 | .29E-05 | 86.923 | .429E+04 | -147.271 | 3222.081 | -1.929 | .00202 |
| 64. | 3231.995 | -2.303 | .20E-05 | 0.00 | .39E-06 | -79.876 | .29E-05 | 86.973 | .444E+04 | -148.625 | 3224.985 | -1.977 | .00217 |
| 65. | 3235.234 | -2.356 | .20E-05 | 0.00 | .39E-06 | -80.543 | .29E-05 | 87.047 | .459E+04 | -149.926 | 3227.745 | -2.015 | .00231 |
| 66. | 3238.308 | -2.398 | .20E-05 | 0.00 | .40E-06 | -81.160 | .29E-05 | 87.146 | .473E+04 | -151.180 | 3230.342 | -2.044 | .00246 |
| 67. | 3241.195 | -2.427 | .20E-05 | 0.00 | .40E-06 | -81.728 | .29E-05 | 87.268 | .487E+04 | -152.391 | 3232.758 | -2.062 | .00260 |
| 68. | 3243.875 | -2.444 | .20E-05 | 0.00 | .40E-06 | -82.252 | .29E-05 | 87.412 | .500E+04 | -153.561 | 3234.973 | -2.070 | .00274 |
| 69. | 3246.324 | -2.449 | .20E-05 | 0.00 | .39E-06 | -82.733 | .29E-05 | 87.577 | .512E+04 | -154.695 | 3236.972 | -2.067 | .00288 |
| 70. | 3248.525 | -2.442 | .21E-05 | 0.00 | .39E-06 | -83.173 | .29E-05 | 87.760 | .524E+04 | -155.795 | 3238.738 | -2.055 | .00301 |
| 71. | 3250.456 | -2.423 | .21E-05 | 0.00 | .39E-06 | -83.575 | .29E-05 | 87.962 | .535E+04 | -156.865 | 3240.256 | -2.034 | .00314 |
| 72. | 3252.100 | -2.392 | .21E-05 | 0.00 | .38E-06 | -83.939 | .29E-05 | 88.178 | .545E+04 | -157.906 | 3241.513 | -2.003 | .00326 |
| 73. | 3253.442 | -2.352 | .21E-05 | 0.00 | .37E-06 | -84.268 | .29E-05 | 88.409 | .554E+04 | -158.920 | 3242.497 | -1.965 | .00336 |
| 74. | 3254.468 | -2.301 | .21E-05 | 0.00 | .36E-06 | -84.563 | .29E-05 | 88.651 | .562E+04 | -159.911 | 3243.199 | -1.919 | .00346 |
| 75. | 3255.166 | -2.242 | .21E-05 | 0.00 | .35E-06 | -84.825 | .29E-05 | 88.902 | .569E+04 | -160.879 | 3243.611 | -1.867 | .00355 |
| 76. | 3255.529 | -2.175 | .21E-05 | 0.00 | .34E-06 | -85.055 | .29E-05 | 89.160 | .575E+04 | -161.827 | 3243.729 | -1.809 | .00362 |
| 77. | 3255.549 | -2.102 | .21E-05 | 0.00 | .33E-06 | -85.254 | .29E-05 | 89.423 | .580E+04 | -162.757 | 3243.548 | -1.746 | .00369 |
| 78. | 3255.225 | -2.024 | .21E-05 | 0.00 | .32E-06 | -85.424 | .29E-05 | 89.689 | .584E+04 | -163.670 | 3243.070 | -1.680 | .00373 |
| 79. | 3254.556 | -1.942 | .21E-05 | 0.00 | .31E-06 | -85.565 | .29E-05 | 89.954 | .587E+04 | -164.567 | 3242.295 | -1.611 | .00377 |
| 80. | 3253.545 | -1.857 | .21E-05 | 0.00 | .30E-06 | -85.680 | .29E-05 | 90.217 | .589E+04 | -165.450 | 3241.228 | -1.540 | .00379 |
| 81. | 3252.200 | -1.770 | .21E-05 | 0.00 | .28E-06 | -85.767 | .29E-05 | 90.474 | .589E+04 | -166.320 | 3239.876 | -1.467 | .00379 |
| 82. | 3250.529 | -1.683 | .21E-05 | 0.00 | .27E-06 | -85.830 | .29E-05 | 90.724 | .588E+04 | -167.178 | 3238.248 | -1.394 | .00378 |
| 83. | 3248.543 | -1.595 | .21E-05 | 0.00 | .26E-06 | -85.869 | .29E-05 | 90.964 | .586E+04 | -168.025 | 3236.354 | -1.322 | .00375 |
| 84. | 3246.258 | -1.509 | .21E-05 | 0.00 | .25E-06 | -85.885 | .29E-05 | 91.193 | .583E+04 | -168.862 | 3234.207 | -1.249 | .00371 |
| 85. | 3243.690 | -1.423 | .21E-05 | 0.00 | .24E-06 | -85.880 | .29E-05 | 91.407 | .579E+04 | -169.689 | 3231.821 | -1.178 | .00366 |
| 86. | 3240.858 | -1.340 | .21E-05 | 0.00 | .23E-06 | -85.855 | .29E-05 | 91.605 | .574E+04 | -170.507 | 3229.214 | -1.108 | .00359 |
| 87. | 3237.781 | -1.258 | .21E-05 | 0.00 | .21E-06 | -85.812 | .29E-05 | 91.786 | .567E+04 | -171.316 | 3226.402 | -1.040 | .00351 |
| 88. | 3234.482 | -1.179 | .21E-05 | 0.00 | .20E-06 | -85.752 | .29E-05 | 91.947 | .560E+04 | -172.116 | 3223.403 | -.974 | .00343 |
| 89. | 3230.984 | -1.103 | .20E-05 | 0.00 | .19E-06 | -85.677 | .29E-05 | 92.087 | .552E+04 | -172.908 | 3220.236 | -.910 | .00333 |
| 90. | 3227.310 | -1.030 | .20E-05 | 0.00 | .18E-06 | -85.589 | .29E-05 | 92.205 | .543E+04 | -173.690 | 3216.922 | -.848 | .00322 |
| 91. | 3223.484 | -.959 | .20E-05 | 0.00 | .18E-06 | -85.490 | .29E-05 | 92.299 | .533E+04 | -174.462 | 3213.481 | -.788 | .00310 |
| 92. | 3219.530 | -.891 | .20E-05 | 0.00 | .17E-06 | -85.382 | .29E-05 | 92.369 | .522E+04 | -175.224 | 3209.934 | -.731 | .00298 |
| 93. | 3215.475 | -.827 | .20E-05 | 0.00 | .16E-06 | -85.268 | .29E-05 | 92.414 | .511E+04 | -175.974 | 3206.301 | -.675 | .00285 |
| 94. | 3211.340 | -.765 | .20E-05 | 0.00 | .15E-06 | -85.150 | .29E-05 | 92.433 | .499E+04 | -176.711 | 3202.603 | -.623 | .00272 |
| 95. | 3207.152 | -.706 | .20E-05 | 0.00 | .14E-06 | -85.032 | .29E-05 | 92.425 | .486E+04 | -177.433 | 3198.861 | -.572 | .00259 |
| 96. | 3202.934 | -.649 | .20E-05 | 0.00 | .14E-06 | -84.915 | .29E-05 | 92.390 | .473E+04 | -178.137 | 3195.096 | -.524 | .00245 |
| 97. | 3198.709 | -.595 | .20E-05 | 0.00 | .13E-06 | -84.805 | .29E-05 | 92.328 | .459E+04 | -178.822 | 3191.326 | -.477 | .00231 |
| 98. | 3194.499 | -.544 | .20E-05 | 0.00 | .12E-06 | -84.704 | .29E-05 | 92.240 | .445E+04 | -179.482 | 3187.572 | -.433 | .00217 |
| 99. | 3190.326 | -.495 | .19E-05 | 0.00 | .12E-06 | -84.617 | .29E-05 | 92.124 | .431E+04 | 179.884 | 3183.853 | -.391 | .00203 |

WITH EULER ANGLES 0 THETA 95 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3186.212 | -.449 | .19E-05 | 0.00 | .11E-06 | -84.547 | .29E-05 | 91.981 | .416E+04 | 179.283 | 3180.187 | -.351 | .00189 |
| 101. | 3182.176 | -.405 | .19E-05 | 0.00 | .11E-06 | -84.500 | .29E-05 | 91.813 | .400E+04 | 178.721 | 3176.592 | -.313 | .00175 |
| 102. | 3178.238 | -.363 | .19E-05 | 0.00 | .10E-06 | -84.478 | .29E-05 | 91.618 | .385E+04 | 178.203 | 3173.085 | -.277 | .00162 |
| 103. | 3174.416 | -.323 | .19E-05 | 0.00 | .99E-07 | -84.488 | .29E-05 | 91.397 | .369E+04 | 177.737 | 3169.683 | -.243 | .00149 |
| 104. | 3170.727 | -.285 | .19E-05 | 0.00 | .95E-07 | -84.534 | .29E-05 | 91.153 | .353E+04 | 177.335 | 3166.401 | -.210 | .00136 |
| 105. | 3167.188 | -.249 | .19E-05 | 0.00 | .91E-07 | -84.621 | .29E-05 | 90.884 | .337E+04 | 177.007 | 3163.254 | -.180 | .00124 |
| 106. | 3163.815 | -.215 | .19E-05 | 0.00 | .87E-07 | -84.754 | .29E-05 | 90.592 | .321E+04 | 176.767 | 3160.257 | -.151 | .00112 |
| 107. | 3160.623 | -.183 | .19E-05 | 0.00 | .84E-07 | -84.938 | .28E-05 | 90.279 | .304E+04 | 176.633 | 3157.423 | -.123 | .00101 |
| 108. | 3157.625 | -.153 | .18E-05 | 0.00 | .80E-07 | -85.179 | .28E-05 | 89.944 | .288E+04 | 176.626 | 3154.765 | -.098 | .00091 |
| 109. | 3154.834 | -.125 | .18E-05 | 0.00 | .78E-07 | -85.481 | .28E-05 | 89.590 | .271E+04 | 176.771 | 3152.295 | -.074 | .00080 |
| 110. | 3152.253 | -.098 | .18E-05 | 0.00 | .75E-07 | -85.851 | .28E-05 | 89.218 | .255E+04 | 177.101 | 3150.025 | -.051 | .00071 |
| 111. | 3149.923 | -.074 | .18E-05 | 0.00 | .72E-07 | -86.294 | .28E-05 | 88.829 | .238E+04 | 177.654 | 3147.965 | -.030 | .00062 |
| 112. | 3147.825 | -.051 | .18E-05 | 0.00 | .69E-07 | -86.816 | .28E-05 | 88.425 | .222E+04 | 178.483 | 3146.125 | -.011 | .00054 |
| 113. | 3145.978 | -.030 | .18E-05 | 0.00 | .67E-07 | -87.423 | .28E-05 | 88.006 | .206E+04 | 179.649 | 3144.515 | .006 | .00047 |
| 114. | 3144.392 | -.010 | .18E-05 | 0.00 | .64E-07 | -88.121 | .28E-05 | 87.575 | .190E+04 | -178.766 | 3143.143 | .023 | .00040 |
| 115. | 3143.076 | .008 | .18E-05 | 0.00 | .62E-07 | -88.920 | .28E-05 | 87.134 | .175E+04 | -176.663 | 3142.017 | .037 | .00034 |
| 116. | 3142.036 | .024 | .18E-05 | 0.00 | .60E-07 | -89.825 | .28E-05 | 86.683 | .161E+04 | -173.916 | 3141.145 | .050 | .00028 |
| 117. | 3141.281 | .038 | .18E-05 | 0.00 | .58E-07 | -90.848 | .28E-05 | 86.225 | .147E+04 | -170.377 | 3140.534 | .061 | .00024 |
| 118. | 3140.816 | .051 | .18E-05 | 0.00 | .55E-07 | -91.999 | .28E-05 | 85.761 | .135E+04 | -165.879 | 3140.189 | .071 | .00020 |
| 119. | 3140.648 | .061 | .18E-05 | 0.00 | .53E-07 | -93.292 | .28E-05 | 85.294 | .124E+04 | -160.268 | 3140.117 | .080 | .00017 |
| 120. | 3140.782 | .070 | .18E-05 | 0.00 | .51E-07 | -94.741 | .28E-05 | 84.825 | .116E+04 | -153.456 | 3140.322 | .086 | .00015 |
| 121. | 3141.222 | .078 | .18E-05 | 0.00 | .49E-07 | -96.357 | .28E-05 | 84.356 | .110E+04 | -145.512 | 3140.809 | .091 | .00013 |
| 122. | 3141.973 | .083 | .18E-05 | 0.00 | .47E-07 | -98.192 | .28E-05 | 83.889 | .107E+04 | -136.753 | 3141.581 | .095 | .00012 |
| 123. | 3143.038 | .087 | .18E-05 | 0.00 | .45E-07 | -100.246 | .28E-05 | 83.426 | .107E+04 | -127.732 | 3142.641 | .096 | .00013 |
| 124. | 3144.420 | .088 | .18E-05 | 0.00 | .43E-07 | -102.566 | .28E-05 | 82.968 | .111E+04 | -119.095 | 3143.993 | .097 | .00014 |
| 125. | 3146.121 | .088 | .18E-05 | 0.00 | .41E-07 | -105.196 | .28E-05 | 82.518 | .118E+04 | -111.351 | 3145.638 | .095 | .00015 |
| 126. | 3148.143 | .086 | .18E-05 | 0.00 | .39E-07 | -108.193 | .28E-05 | 82.077 | .128E+04 | -104.762 | 3147.577 | .092 | .00018 |
| 127. | 3150.486 | .082 | .18E-05 | 0.00 | .37E-07 | -111.630 | .28E-05 | 81.648 | .140E+04 | -99.353 | 3149.811 | .087 | .00021 |
| 128. | 3153.152 | .076 | .18E-05 | 0.00 | .35E-07 | -115.591 | .28E-05 | 81.232 | .153E+04 | -95.017 | 3152.340 | .080 | .00026 |
| 129. | 3156.140 | .068 | .18E-05 | 0.00 | .33E-07 | -120.184 | .28E-05 | 80.832 | .168E+04 | -91.593 | 3155.162 | .071 | .00031 |
| 130. | 3159.448 | .058 | .18E-05 | 0.00 | .31E-07 | -125.526 | .28E-05 | 80.448 | .184E+04 | -88.917 | 3158.278 | .061 | .00037 |
| 131. | 3163.075 | .045 | .18E-05 | 0.00 | .29E-07 | -131.743 | .28E-05 | 80.083 | .200E+04 | -86.846 | 3161.683 | .048 | .00044 |
| 132. | 3167.018 | .031 | .19E-05 | 0.00 | .28E-07 | -138.938 | .28E-05 | 79.738 | .218E+04 | -85.259 | 3165.375 | .034 | .00052 |
| 133. | 3171.273 | .013 | .19E-05 | 0.00 | .27E-07 | -147.146 | .27E-05 | 79.416 | .235E+04 | -84.060 | 3169.350 | .017 | .00061 |
| 134. | 3175.837 | -.006 | .19E-05 | 0.00 | .27E-07 | -156.275 | .27E-05 | 79.118 | .254E+04 | -83.175 | 3173.602 | -.001 | .00070 |
| 135. | 3180.703 | -.029 | .19E-05 | 0.00 | .27E-07 | -166.050 | .27E-05 | 78.845 | .272E+04 | -82.541 | 3178.126 | -.022 | .00081 |
| 136. | 3185.865 | -.054 | .19E-05 | 0.00 | .28E-07 | -176.031 | .27E-05 | 78.600 | .291E+04 | -82.113 | 3182.914 | -.046 | .00093 |
| 137. | 3191.314 | -.081 | .19E-05 | 0.00 | .29E-07 | 174.283 | .27E-05 | 78.384 | .310E+04 | -81.850 | 3187.958 | -.071 | .00105 |
| 138. | 3197.043 | -.113 | .19E-05 | 0.00 | .32E-07 | 165.308 | .27E-05 | 78.198 | .329E+04 | -81.723 | 3193.248 | -.100 | .00119 |
| 139. | 3203.040 | -.147 | .20E-05 | 0.00 | .35E-07 | 157.286 | .27E-05 | 78.045 | .349E+04 | -81.708 | 3198.773 | -.131 | .00133 |
| 140. | 3209.292 | -.185 | .20E-05 | 0.00 | .40E-07 | 150.284 | .27E-05 | 77.926 | .369E+04 | -81.783 | 3204.521 | -.165 | .00149 |
| 141. | 3215.787 | -.226 | .20E-05 | 0.00 | .45E-07 | 144.249 | .27E-05 | 77.842 | .389E+04 | -81.933 | 3210.476 | -.202 | .00165 |
| 142. | 3222.508 | -.272 | .20E-05 | 0.00 | .50E-07 | 139.072 | .27E-05 | 77.794 | .409E+04 | -82.144 | 3216.624 | -.242 | .00183 |
| 143. | 3229.438 | -.322 | .20E-05 | 0.00 | .57E-07 | 134.626 | .27E-05 | 77.785 | .429E+04 | -82.404 | 3222.946 | -.287 | .00201 |
| 144. | 3236.557 | -.377 | .20E-05 | 0.00 | .64E-07 | 130.794 | .27E-05 | 77.816 | .450E+04 | -82.704 | 3229.422 | -.335 | .00220 |
| 145. | 3243.842 | -.437 | .21E-05 | 0.00 | .72E-07 | 127.473 | .27E-05 | 77.888 | .470E+04 | -83.036 | 3236.031 | -.387 | .00241 |
| 146. | 3251.268 | -.503 | .21E-05 | 0.00 | .80E-07 | 124.578 | .27E-05 | 78.002 | .490E+04 | -83.393 | 3242.749 | -.444 | .00262 |
| 147. | 3258.808 | -.576 | .21E-05 | 0.00 | .90E-07 | 122.039 | .27E-05 | 78.159 | .511E+04 | -83.770 | 3249.549 | -.506 | .00284 |
| 148. | 3266.432 | -.655 | .21E-05 | 0.00 | .10E-06 | 119.800 | .27E-05 | 78.362 | .531E+04 | -84.161 | 3256.401 | -.573 | .00307 |
| 149. | 3274.105 | -.742 | .21E-05 | 0.00 | .11E-06 | 117.818 | .27E-05 | 78.609 | .552E+04 | -84.563 | 3263.275 | -.646 | .00331 |

WITH EULER ANGLES 0 THETA 95 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3281.791 | -.837 | .22E-05 | 0.00 | .12E-06 | 116.055 | .27E-05 | 78.904 | .572E+04 | -84.971 | 3270.137 | -.726 | .00355 |
| 151. | 3289.449 | -.942 | .22E-05 | 0.00 | .14E-06 | 114.484 | .27E-05 | 79.246 | .592E+04 | -85.384 | 3276.949 | -.813 | .00380 |
| 152. | 3297.036 | -1.056 | .22E-05 | 0.00 | .15E-06 | 113.080 | .27E-05 | 79.635 | .611E+04 | -85.798 | 3283.673 | -.907 | .00405 |
| 153. | 3304.505 | -1.181 | .22E-05 | 0.00 | .17E-06 | 111.824 | .27E-05 | 80.073 | .631E+04 | -86.213 | 3290.266 | -1.009 | .00431 |
| 154. | 3311.805 | -1.318 | .22E-05 | 0.00 | .18E-06 | 110.701 | .27E-05 | 80.559 | .650E+04 | -86.626 | 3296.686 | -1.119 | .00457 |
| 155. | 3318.884 | -1.467 | .23E-05 | 0.00 | .20E-06 | 109.696 | .28E-05 | 81.092 | .668E+04 | -87.036 | 3302.887 | -1.239 | .00482 |
| 156. | 3325.685 | -1.629 | .23E-05 | 0.00 | .22E-06 | 108.799 | .28E-05 | 81.673 | .685E+04 | -87.443 | 3308.821 | -1.367 | .00507 |
| 157. | 3332.152 | -1.805 | .23E-05 | 0.00 | .24E-06 | 107.999 | .28E-05 | 82.299 | .702E+04 | -87.847 | 3314.441 | -1.506 | .00532 |
| 158. | 3338.225 | -1.995 | .23E-05 | 0.00 | .26E-06 | 107.289 | .28E-05 | 82.970 | .718E+04 | -88.247 | 3319.698 | -1.654 | .00555 |
| 159. | 3343.847 | -2.198 | .23E-05 | 0.00 | .28E-06 | 106.660 | .28E-05 | 83.682 | .732E+04 | -88.644 | 3324.545 | -1.811 | .00577 |
| 160. | 3348.959 | -2.415 | .23E-05 | 0.00 | .30E-06 | 106.106 | .28E-05 | 84.434 | .745E+04 | -89.039 | 3328.937 | -1.977 | .00598 |
| 161. | 3353.507 | -2.643 | .24E-05 | 0.00 | .32E-06 | 105.619 | .28E-05 | 85.221 | .757E+04 | -89.434 | 3332.829 | -2.152 | .00617 |
| 162. | 3357.439 | -2.882 | .24E-05 | 0.00 | .35E-06 | 105.195 | .28E-05 | 86.041 | .767E+04 | -89.829 | 3336.182 | -2.333 | .00633 |
| 163. | 3360.712 | -3.129 | .24E-05 | 0.00 | .37E-06 | 104.826 | .28E-05 | 86.887 | .776E+04 | -90.226 | 3338.962 | -2.519 | .00647 |
| 164. | 3363.287 | -3.380 | .24E-05 | 0.00 | .40E-06 | 104.507 | .28E-05 | 87.756 | .783E+04 | -90.628 | 3341.139 | -2.709 | .00659 |
| 165. | 3365.135 | -3.632 | .24E-05 | 0.00 | .42E-06 | 104.232 | .28E-05 | 88.642 | .788E+04 | -91.037 | 3342.691 | -2.900 | .00667 |
| 166. | 3366.238 | -3.882 | .24E-05 | 0.00 | .44E-06 | 103.996 | .28E-05 | 89.538 | .790E+04 | -91.456 | 3343.604 | -3.088 | .00672 |
| 167. | 3366.586 | -4.123 | .24E-05 | 0.00 | .46E-06 | 103.793 | .27E-05 | 90.439 | .792E+04 | -91.886 | 3343.870 | -3.272 | .00675 |
| 168. | 3366.182 | -4.353 | .24E-05 | 0.00 | .48E-06 | 103.618 | .27E-05 | 91.339 | .791E+04 | -92.330 | 3343.490 | -3.448 | .00674 |
| 169. | 3365.039 | -4.565 | .24E-05 | 0.00 | .50E-06 | 103.465 | .27E-05 | 92.232 | .788E+04 | -92.791 | 3342.475 | -3.613 | .00671 |
| 170. | 3363.179 | -4.756 | .24E-05 | 0.00 | .52E-06 | 103.330 | .27E-05 | 93.111 | .784E+04 | -93.272 | 3340.841 | -3.764 | .00664 |
| 171. | 3360.634 | -4.923 | .23E-05 | 0.00 | .54E-06 | 103.207 | .27E-05 | 93.971 | .778E+04 | -93.774 | 3338.611 | -3.899 | .00655 |
| 172. | 3357.442 | -5.062 | .23E-05 | 0.00 | .55E-06 | 103.092 | .27E-05 | 94.808 | .771E+04 | -94.299 | 3335.816 | -4.015 | .00644 |
| 173. | 3353.648 | -5.172 | .23E-05 | 0.00 | .56E-06 | 102.979 | .27E-05 | 95.617 | .763E+04 | -94.850 | 3332.491 | -4.111 | .00631 |
| 174. | 3349.302 | -5.251 | .23E-05 | 0.00 | .57E-06 | 102.865 | .27E-05 | 96.393 | .753E+04 | -95.429 | 3328.674 | -4.185 | .00616 |
| 175. | 3344.454 | -5.299 | .23E-05 | 0.00 | .58E-06 | 102.746 | .27E-05 | 97.133 | .742E+04 | -96.036 | 3324.409 | -4.236 | .00599 |
| 176. | 3339.159 | -5.317 | .23E-05 | 0.00 | .58E-06 | 102.617 | .27E-05 | 97.835 | .731E+04 | -96.674 | 3319.738 | -4.266 | .00582 |
| 177. | 3333.471 | -5.305 | .22E-05 | 0.00 | .59E-06 | 102.474 | .27E-05 | 98.496 | .719E+04 | -97.343 | 3314.708 | -4.272 | .00563 |
| 178. | 3327.442 | -5.264 | .22E-05 | 0.00 | .59E-06 | 102.315 | .27E-05 | 99.113 | .706E+04 | -98.045 | 3309.363 | -4.257 | .00543 |
| 179. | 3321.125 | -5.198 | .22E-05 | 0.00 | .58E-06 | 102.137 | .27E-05 | 99.687 | .692E+04 | -98.780 | 3303.747 | -4.221 | .00523 |
| 180. | 3314.570 | -5.107 | .22E-05 | 0.00 | .58E-06 | 101.935 | .27E-05 | 100.215 | .678E+04 | -99.550 | 3297.906 | -4.166 | .00503 |

EULER ANGLES 0 0 THETA WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI TRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3260.028 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .29E-05 | 89.632 | .608E+04 | -163.902 | 3246.913 | 0.000 | .00402 |
| 1. | 3259.818 | -.424 | .21E-05 | 0.00 | .65E-07 | -86.179 | .29E-05 | 89.640 | .607E+04 | -163.910 | 3246.740 | -.349 | .00401 |
| 2. | 3259.189 | -.841 | .21E-05 | 0.00 | .13E-06 | -86.093 | .29E-05 | 89.662 | .604E+04 | -163.933 | 3246.224 | -.693 | .00398 |
| 3. | 3258.152 | -1.244 | .21E-05 | 0.00 | .19E-06 | -85.951 | .29E-05 | 89.700 | .600E+04 | -163.974 | 3245.373 | -1.027 | .00392 |
| 4. | 3256.726 | -1.626 | .21E-05 | 0.00 | .25E-06 | -85.752 | .29E-05 | 89.753 | .594E+04 | -164.035 | 3244.199 | -1.346 | .00385 |
| 5. | 3254.933 | -1.983 | .21E-05 | 0.00 | .31E-06 | -85.498 | .29E-05 | 89.822 | .586E+04 | -164.120 | 3242.719 | -1.646 | .00375 |
| 6. | 3252.802 | -2.310 | .21E-05 | 0.00 | .37E-06 | -85.190 | .29E-05 | 89.905 | .577E+04 | -164.234 | 3240.955 | -1.923 | .00364 |
| 7. | 3250.365 | -2.603 | .21E-05 | 0.00 | .42E-06 | -84.829 | .29E-05 | 90.004 | .567E+04 | -164.381 | 3238.929 | -2.175 | .00352 |
| 8. | 3247.656 | -2.860 | .21E-05 | 0.00 | .47E-06 | -84.417 | .29E-05 | 90.117 | .555E+04 | -164.569 | 3236.669 | -2.400 | .00338 |
| 9. | 3244.713 | -3.080 | .20E-05 | 0.00 | .52E-06 | -83.954 | .29E-05 | 90.246 | .543E+04 | -164.806 | 3234.204 | -2.595 | .00324 |
| 10. | 3241.574 | -3.263 | .20E-05 | 0.00 | .57E-06 | -83.442 | .29E-05 | 90.389 | .530E+04 | -165.099 | 3231.563 | -2.760 | .00309 |
| 11. | 3238.276 | -3.407 | .20E-05 | 0.00 | .61E-06 | -82.882 | .29E-05 | 90.547 | .516E+04 | -165.459 | 3228.777 | -2.894 | .00293 |
| 12. | 3234.857 | -3.513 | .20E-05 | 0.00 | .65E-06 | -82.276 | .28E-05 | 90.720 | .501E+04 | -165.897 | 3225.876 | -2.997 | .00278 |
| 13. | 3231.355 | -3.584 | .20E-05 | 0.00 | .68E-06 | -81.624 | .28E-05 | 90.906 | .487E+04 | -166.423 | 3222.891 | -3.069 | .00262 |
| 14. | 3227.805 | -3.618 | .20E-05 | 0.00 | .71E-06 | -80.927 | .28E-05 | 91.106 | .472E+04 | -167.052 | 3219.853 | -3.112 | .00246 |
| 15. | 3224.241 | -3.619 | .20E-05 | 0.00 | .74E-06 | -80.187 | .28E-05 | 91.319 | .457E+04 | -167.796 | 3216.791 | -3.125 | .00231 |
| 16. | 3220.697 | -3.587 | .20E-05 | 0.00 | .77E-06 | -79.405 | .28E-05 | 91.545 | .441E+04 | -168.672 | 3213.733 | -3.109 | .00216 |
| 17. | 3217.203 | -3.525 | .20E-05 | 0.00 | .79E-06 | -78.580 | .28E-05 | 91.782 | .426E+04 | -169.696 | 3210.706 | -3.067 | .00202 |
| 18. | 3213.789 | -3.432 | .20E-05 | 0.00 | .81E-06 | -77.714 | .28E-05 | 92.031 | .411E+04 | -170.886 | 3207.736 | -2.998 | .00188 |
| 19. | 3210.483 | -3.313 | .19E-05 | 0.00 | .83E-06 | -76.806 | .28E-05 | 92.290 | .397E+04 | -172.257 | 3204.848 | -2.905 | .00176 |
| 20. | 3207.311 | -3.167 | .19E-05 | 0.00 | .85E-06 | -75.858 | .28E-05 | 92.558 | .383E+04 | -173.829 | 3202.066 | -2.789 | .00164 |
| 21. | 3204.297 | -2.997 | .19E-05 | 0.00 | .86E-06 | -74.870 | .28E-05 | 92.835 | .370E+04 | -175.618 | 3199.411 | -2.651 | .00152 |
| 22. | 3201.462 | -2.804 | .19E-05 | 0.00 | .87E-06 | -73.841 | .28E-05 | 93.120 | .357E+04 | -177.638 | 3196.903 | -2.492 | .00142 |
| 23. | 3198.829 | -2.591 | .19E-05 | 0.00 | .88E-06 | -72.771 | .28E-05 | 93.411 | .345E+04 | -179.900 | 3194.560 | -2.315 | .00133 |
| 24. | 3196.415 | -2.359 | .19E-05 | 0.00 | .89E-06 | -71.660 | .28E-05 | 93.707 | .335E+04 | 177.591 | 3192.401 | -2.120 | .00126 |
| 25. | 3194.238 | -2.109 | .19E-05 | 0.00 | .90E-06 | -70.508 | .28E-05 | 94.007 | .326E+04 | 174.839 | 3190.440 | -1.910 | .00119 |
| 26. | 3192.313 | -1.845 | .19E-05 | 0.00 | .90E-06 | -69.313 | .28E-05 | 94.310 | .318E+04 | 171.857 | 3188.691 | -1.687 | .00113 |
| 27. | 3190.653 | -1.567 | .19E-05 | 0.00 | .90E-06 | -68.074 | .28E-05 | 94.615 | .312E+04 | 168.670 | 3187.166 | -1.451 | .00109 |
| 28. | 3189.269 | -1.278 | .19E-05 | 0.00 | .90E-06 | -66.789 | .28E-05 | 94.920 | .308E+04 | 165.318 | 3185.876 | -1.205 | .00106 |
| 29. | 3188.171 | -.981 | .19E-05 | 0.00 | .90E-06 | -65.458 | .28E-05 | 95.224 | .305E+04 | 161.849 | 3184.829 | -.951 | .00105 |
| 30. | 3187.367 | -.676 | .19E-05 | 0.00 | .90E-06 | -64.076 | .28E-05 | 95.524 | .305E+04 | 158.324 | 3184.032 | -.691 | .00105 |
| 31. | 3186.860 | -.367 | .19E-05 | 0.00 | .90E-06 | -62.642 | .28E-05 | 95.821 | .306E+04 | 154.807 | 3183.490 | -.427 | .00106 |
| 32. | 3186.655 | -.055 | .19E-05 | 0.00 | .89E-06 | -61.150 | .28E-05 | 96.113 | .310E+04 | 151.362 | 3183.204 | -.161 | .00108 |
| 33. | 3186.753 | .255 | .19E-05 | 0.00 | .89E-06 | -59.597 | .28E-05 | 96.397 | .315E+04 | 148.049 | 3183.177 | .105 | .00112 |
| 34. | 3187.150 | .563 | .20E-05 | 0.00 | .88E-06 | -57.976 | .28E-05 | 96.673 | .322E+04 | 144.918 | 3183.407 | .369 | .00117 |
| 35. | 3187.844 | .865 | .20E-05 | 0.00 | .87E-06 | -56.281 | .28E-05 | 96.938 | .331E+04 | 142.005 | 3183.891 | .627 | .00124 |
| 36. | 3188.827 | 1.158 | .20E-05 | 0.00 | .86E-06 | -54.502 | .28E-05 | 97.193 | .341E+04 | 139.337 | 3184.622 | .879 | .00132 |
| 37. | 3190.090 | 1.439 | .20E-05 | 0.00 | .84E-06 | -52.630 | .28E-05 | 97.434 | .352E+04 | 136.927 | 3185.594 | 1.121 | .00141 |
| 38. | 3191.619 | 1.706 | .20E-05 | 0.00 | .83E-06 | -50.651 | .28E-05 | 97.661 | .364E+04 | 134.778 | 3186.794 | 1.351 | .00151 |
| 39. | 3193.401 | 1.954 | .20E-05 | 0.00 | .81E-06 | -48.550 | .28E-05 | 97.873 | .378E+04 | 132.885 | 3188.212 | 1.566 | .00162 |
| 40. | 3195.416 | 2.181 | .20E-05 | 0.00 | .79E-06 | -46.310 | .29E-05 | 98.068 | .391E+04 | 131.240 | 3189.831 | 1.764 | .00175 |
| 41. | 3197.642 | 2.384 | .20E-05 | 0.00 | .77E-06 | -43.907 | .29E-05 | 98.245 | .405E+04 | 129.827 | 3191.634 | 1.942 | .00188 |
| 42. | 3200.054 | 2.559 | .20E-05 | 0.00 | .75E-06 | -41.314 | .29E-05 | 98.403 | .419E+04 | 128.632 | 3193.601 | 2.097 | .00202 |
| 43. | 3202.625 | 2.703 | .21E-05 | 0.00 | .73E-06 | -38.501 | .29E-05 | 98.541 | .434E+04 | 127.637 | 3195.709 | 2.228 | .00216 |
| 44. | 3205.321 | 2.812 | .21E-05 | 0.00 | .70E-06 | -35.428 | .29E-05 | 98.658 | .448E+04 | 126.827 | 3197.932 | 2.331 | .00231 |
| 45. | 3208.109 | 2.885 | .21E-05 | 0.00 | .68E-06 | -32.051 | .29E-05 | 98.753 | .461E+04 | 126.185 | 3200.243 | 2.405 | .00245 |
| 46. | 3210.951 | 2.916 | .21E-05 | 0.00 | .65E-06 | -28.320 | .29E-05 | 98.827 | .474E+04 | 125.694 | 3202.613 | 2.447 | .00260 |
| 47. | 3213.805 | 2.906 | .21E-05 | 0.00 | .63E-06 | -24.179 | .29E-05 | 98.877 | .486E+04 | 125.341 | 3205.009 | 2.455 | .00274 |
| 48. | 3216.630 | 2.851 | .21E-05 | 0.00 | .60E-06 | -19.570 | .30E-05 | 98.905 | .497E+04 | 125.112 | 3207.397 | 2.428 | .00287 |
| 49. | 3219.381 | 2.750 | .22E-05 | 0.00 | .58E-06 | -14.441 | .30E-05 | 98.911 | .506E+04 | 124.993 | 3209.744 | 2.365 | .00299 |

EULER ANGLES 0 0 THETA WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3222.014 | 2.604 | .22E-05 | 0.00 | .55E-06 | -8.755 | .30E-05 | 98.894 | .515E+04 | 124.972 | 3212.012 | 2.265 | .00310 |
| 51. | 3224.482 | 2.414 | .22E-05 | 0.00 | .54E-06 | -2.504 | .30E-05 | 98.854 | .521E+04 | 125.037 | 3214.167 | 2.130 | .00320 |
| 52. | 3226.744 | 2.180 | .22E-05 | 0.00 | .52E-06 | 4.266 | .30E-05 | 98.794 | .527E+04 | 125.175 | 3216.172 | 1.959 | .00328 |
| 53. | 3228.757 | 1.908 | .22E-05 | 0.00 | .51E-06 | 11.450 | .30E-05 | 98.713 | .530E+04 | 125.376 | 3217.995 | 1.755 | .00333 |
| 54. | 3230.487 | 1.601 | .22E-05 | 0.00 | .51E-06 | 18.872 | .30E-05 | 98.613 | .531E+04 | 125.628 | 3219.604 | 1.521 | .00337 |
| 55. | 3231.900 | 1.266 | .22E-05 | 0.00 | .52E-06 | 26.311 | .30E-05 | 98.495 | .531E+04 | 125.920 | 3220.971 | 1.260 | .00338 |
| 56. | 3232.972 | .909 | .22E-05 | 0.00 | .53E-06 | 33.535 | .30E-05 | 98.360 | .529E+04 | 126.240 | 3222.070 | .978 | .00337 |
| 57. | 3233.685 | .537 | .22E-05 | 0.00 | .55E-06 | 40.345 | .30E-05 | 98.210 | .525E+04 | 126.576 | 3222.884 | .678 | .00334 |
| 58. | 3234.029 | .160 | .22E-05 | 0.00 | .57E-06 | 46.503 | .30E-05 | 98.046 | .519E+04 | 126.919 | 3223.399 | .368 | .00329 |
| 59. | 3234.001 | -.216 | .22E-05 | 0.00 | .60E-06 | 52.237 | .30E-05 | 97.870 | .512E+04 | 127.256 | 3223.606 | .053 | .00321 |
| 60. | 3233.606 | -.583 | .22E-05 | 0.00 | .63E-06 | 57.236 | .30E-05 | 97.683 | .503E+04 | 127.578 | 3223.504 | -.261 | .00312 |
| 61. | 3232.858 | -.934 | .22E-05 | 0.00 | .66E-06 | 61.627 | .30E-05 | 97.487 | .494E+04 | 127.873 | 3223.096 | -.567 | .00302 |
| 62. | 3231.774 | -1.263 | .22E-05 | 0.00 | .69E-06 | 65.460 | .29E-05 | 97.282 | .483E+04 | 128.132 | 3222.394 | -.862 | .00290 |
| 63. | 3230.379 | -1.567 | .22E-05 | 0.00 | .73E-06 | 68.795 | .29E-05 | 97.071 | .471E+04 | 128.345 | 3221.410 | -1.139 | .00278 |
| 64. | 3228.700 | -1.840 | .22E-05 | 0.00 | .76E-06 | 71.693 | .29E-05 | 96.853 | .458E+04 | 128.503 | 3220.164 | -1.396 | .00264 |
| 65. | 3226.768 | -2.082 | .21E-05 | 0.00 | .80E-06 | 74.209 | .29E-05 | 96.629 | .445E+04 | 128.598 | 3218.679 | -1.628 | .00251 |
| 66. | 3224.615 | -2.290 | .21E-05 | 0.00 | .83E-06 | 76.396 | .29E-05 | 96.401 | .432E+04 | 128.622 | 3216.981 | -1.833 | .00237 |
| 67. | 3222.278 | -2.464 | .21E-05 | 0.00 | .86E-06 | 78.298 | .29E-05 | 96.168 | .418E+04 | 128.566 | 3215.095 | -2.010 | .00223 |
| 68. | 3219.787 | -2.604 | .21E-05 | 0.00 | .89E-06 | 79.953 | .28E-05 | 95.932 | .404E+04 | 128.423 | 3213.051 | -2.159 | .00209 |
| 69. | 3217.178 | -2.710 | .21E-05 | 0.00 | .91E-06 | 81.393 | .28E-05 | 95.692 | .390E+04 | 128.186 | 3210.877 | -2.278 | .00196 |
| 70. | 3214.482 | -2.784 | .21E-05 | 0.00 | .94E-06 | 82.648 | .28E-05 | 95.448 | .377E+04 | 127.846 | 3208.603 | -2.367 | .00183 |
| 71. | 3211.732 | -2.827 | .20E-05 | 0.00 | .96E-06 | 83.740 | .28E-05 | 95.201 | .363E+04 | 127.397 | 3206.256 | -2.428 | .00170 |
| 72. | 3208.957 | -2.840 | .20E-05 | 0.00 | .98E-06 | 84.690 | .28E-05 | 94.950 | .350E+04 | 126.831 | 3203.865 | -2.462 | .00159 |
| 73. | 3206.184 | -2.826 | .20E-05 | 0.00 | .10E-05 | 85.515 | .28E-05 | 94.697 | .337E+04 | 126.139 | 3201.457 | -2.469 | .00147 |
| 74. | 3203.440 | -2.786 | .20E-05 | 0.00 | .10E-05 | 86.231 | .26E-05 | 94.440 | .324E+04 | 125.314 | 3199.055 | -2.451 | .00137 |
| 75. | 3200.750 | -2.722 | .20E-05 | 0.00 | .10E-05 | 86.850 | .27E-05 | 94.181 | .312E+04 | 124.347 | 3196.685 | -2.409 | .00127 |
| 76. | 3198.136 | -2.635 | .20E-05 | 0.00 | .10E-05 | 87.383 | .27E-05 | 93.918 | .300E+04 | 123.230 | 3194.368 | -2.345 | .00118 |
| 77. | 3195.618 | -2.529 | .20E-05 | 0.00 | .11E-05 | 87.841 | .27E-05 | 93.652 | .289E+04 | 121.954 | 3192.125 | -2.261 | .00109 |
| 78. | 3193.216 | -2.403 | .20E-05 | 0.00 | .11E-05 | 88.233 | .27E-05 | 93.384 | .278E+04 | 120.512 | 3189.974 | -2.158 | .00102 |
| 79. | 3190.946 | -2.260 | .20E-05 | 0.00 | .11E-05 | 88.566 | .27E-05 | 93.113 | .268E+04 | 118.896 | 3187.934 | -2.038 | .00094 |
| 80. | 3188.824 | -2.102 | .20E-05 | 0.00 | .11E-05 | 88.846 | .27E-05 | 92.839 | .259E+04 | 117.099 | 3186.020 | -1.901 | .00088 |
| 81. | 3186.864 | -1.930 | .19E-05 | 0.00 | .11E-05 | 89.082 | .27E-05 | 92.563 | .250E+04 | 115.118 | 3184.247 | -1.751 | .00082 |
| 82. | 3185.079 | -1.746 | .19E-05 | 0.00 | .11E-05 | 89.278 | .27E-05 | 92.284 | .242E+04 | 112.949 | 3182.626 | -1.588 | .00077 |
| 83. | 3183.479 | -1.551 | .19E-05 | 0.00 | .11E-05 | 89.439 | .27E-05 | 92.004 | .234E+04 | 110.594 | 3181.171 | -1.413 | .00072 |
| 84. | 3182.073 | -1.347 | .19E-05 | 0.00 | .11E-05 | 89.571 | .27E-05 | 91.721 | .228E+04 | 108.058 | 3179.890 | -1.229 | .00069 |
| 85. | 3180.870 | -1.134 | .19E-05 | 0.00 | .11E-05 | 89.679 | .27E-05 | 91.437 | .222E+04 | 105.351 | 3178.791 | -1.037 | .00065 |
| 86. | 3179.877 | -.915 | .19E-05 | 0.00 | .11E-05 | 89.767 | .27E-05 | 91.151 | .218E+04 | 102.489 | 3177.883 | -.838 | .00063 |
| 87. | 3179.099 | -.691 | .19E-05 | 0.00 | .11E-05 | 89.839 | .27E-05 | 90.864 | .214E+04 | 99.493 | 3177.171 | -.633 | .00061 |
| 88. | 3178.540 | -.463 | .19E-05 | 0.00 | .11E-05 | 89.899 | .27E-05 | 90.577 | .212E+04 | 96.391 | 3176.659 | -.424 | .00059 |
| 89. | 3178.203 | -.232 | .19E-05 | 0.00 | .11E-05 | 89.951 | .27E-05 | 90.289 | .210E+04 | 93.215 | 3176.351 | -.213 | .00058 |
| 90. | 3178.091 | 0.000 | .19E-05 | 0.00 | .12E-05 | 90.000 | .27E-05 | 90.000 | .209E+04 | 90.000 | 3176.247 | 0.000 | .00058 |
| 91. | 3178.203 | .232 | .19E-05 | 0.00 | .11E-05 | 90.049 | .27E-05 | 89.711 | .210E+04 | 86.785 | 3176.351 | .213 | .00058 |
| 92. | 3178.540 | .463 | .19E-05 | 0.00 | .11E-05 | 90.101 | .27E-05 | 89.423 | .212E+04 | 83.609 | 3176.659 | .424 | .00059 |
| 93. | 3179.099 | .691 | .19E-05 | 0.00 | .11E-05 | 90.161 | .27E-05 | 89.136 | .214E+04 | 80.507 | 3177.171 | .633 | .00061 |
| 94. | 3179.877 | .915 | .19E-05 | 0.00 | .11E-05 | 90.233 | .27E-05 | 88.849 | .218E+04 | 77.511 | 3177.883 | .838 | .00063 |
| 95. | 3180.870 | 1.134 | .19E-05 | 0.00 | .11E-05 | 90.321 | .27E-05 | 88.563 | .222E+04 | 74.649 | 3178.791 | 1.037 | .00065 |
| 96. | 3182.073 | 1.347 | .19E-05 | 0.00 | .11E-05 | 90.429 | .27E-05 | 88.279 | .228E+04 | 71.942 | 3179.890 | 1.229 | .00069 |
| 97. | 3183.479 | 1.551 | .19E-05 | 0.00 | .11E-05 | 90.561 | .27E-05 | 87.996 | .234E+04 | 69.406 | 3181.171 | 1.413 | .00072 |
| 98. | 3185.079 | 1.746 | .19E-05 | 0.00 | .11E-05 | 90.722 | .27E-05 | 87.716 | .242E+04 | 67.051 | 3182.626 | 1.588 | .00077 |
| 99. | 3186.864 | 1.930 | .19E-05 | 0.00 | .11E-05 | 90.918 | .27E-05 | 87.437 | .250E+04 | 64.882 | 3184.247 | 1.751 | .00082 |

EULER ANGLES 0 0 THETA WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3188.824 | 2.102 | .20E-05 | 0.00 | .11E-05 | 91.154 | .27E-05 | 87.161 | .259E+04 | 62.901 | 3186.020 | 1.901 | .00088 |
| 101. | 3190.946 | 2.260 | .20E-05 | 0.00 | .11E-05 | 91.434 | .27E-05 | 86.887 | .268E+04 | 61.104 | 3187.934 | 2.038 | .00094 |
| 102. | 3193.216 | 2.403 | .20E-05 | 0.00 | .11E-05 | 91.767 | .27E-05 | 86.616 | .278E+04 | 59.488 | 3189.974 | 2.158 | .00102 |
| 103. | 3195.618 | 2.529 | .20E-05 | 0.00 | .11E-05 | 92.159 | .27E-05 | 86.348 | .289E+04 | 58.046 | 3192.125 | 2.261 | .00109 |
| 104. | 3198.136 | 2.635 | .20E-05 | 0.00 | .10E-05 | 92.617 | .27E-05 | 86.082 | .300E+04 | 56.770 | 3194.368 | 2.345 | .00118 |
| 105. | 3200.750 | 2.722 | .20E-05 | 0.00 | .10E-05 | 93.150 | .27E-05 | 85.819 | .312E+04 | 55.653 | 3196.685 | 2.409 | .00127 |
| 106. | 3203.440 | 2.786 | .20E-05 | 0.00 | .10E-05 | 93.769 | .28E-05 | 85.560 | .324E+04 | 54.686 | 3199.055 | 2.451 | .00137 |
| 107. | 3206.184 | 2.826 | .20E-05 | 0.00 | .10E-05 | 94.485 | .28E-05 | 85.303 | .337E+04 | 53.861 | 3201.457 | 2.469 | .00147 |
| 108. | 3208.957 | 2.840 | .20E-05 | 0.00 | .98E-06 | 95.310 | .28E-05 | 85.050 | .350E+04 | 53.169 | 3203.865 | 2.462 | .00159 |
| 109. | 3211.732 | 2.827 | .20E-05 | 0.00 | .96E-06 | 96.260 | .28E-05 | 84.799 | .363E+04 | 52.603 | 3206.256 | 2.428 | .00170 |
| 110. | 3214.482 | 2.784 | .21E-05 | 0.00 | .94E-06 | 97.352 | .28E-05 | 84.552 | .377E+04 | 52.154 | 3208.603 | 2.367 | .00183 |
| 111. | 3217.178 | 2.710 | .21E-05 | 0.00 | .91E-06 | 98.607 | .28E-05 | 84.308 | .390E+04 | 51.814 | 3210.877 | 2.278 | .00196 |
| 112. | 3219.787 | 2.604 | .21E-05 | 0.00 | .89E-06 | 100.047 | .28E-05 | 84.068 | .404E+04 | 51.577 | 3213.051 | 2.159 | .00209 |
| 113. | 3222.278 | 2.464 | .21E-05 | 0.00 | .86E-06 | 101.702 | .29E-05 | 83.832 | .418E+04 | 51.434 | 3215.095 | 2.010 | .00223 |
| 114. | 3224.616 | 2.290 | .21E-05 | 0.00 | .83E-06 | 103.604 | .29E-05 | 83.599 | .432E+04 | 51.378 | 3216.981 | 1.833 | .00237 |
| 115. | 3226.768 | 2.082 | .21E-05 | 0.00 | .80E-06 | 105.791 | .29E-05 | 83.371 | .445E+04 | 51.402 | 3218.679 | 1.628 | .00251 |
| 116. | 3228.700 | 1.840 | .22E-05 | 0.00 | .76E-06 | 108.307 | .29E-05 | 83.147 | .458E+04 | 51.497 | 3220.164 | 1.396 | .00264 |
| 117. | 3230.379 | 1.567 | .22E-05 | 0.00 | .73E-06 | 111.205 | .29E-05 | 82.929 | .471E+04 | 51.655 | 3221.410 | 1.139 | .00278 |
| 118. | 3231.774 | 1.263 | .22E-05 | 0.00 | .69E-06 | 114.540 | .29E-05 | 82.718 | .483E+04 | 51.868 | 3222.394 | .862 | .00290 |
| 119. | 3232.858 | .934 | .22E-05 | 0.00 | .66E-06 | 118.373 | .30E-05 | 82.513 | .494E+04 | 52.127 | 3223.096 | .567 | .00302 |
| 120. | 3233.606 | .583 | .22E-05 | 0.00 | .63E-06 | 122.764 | .30E-05 | 82.317 | .503E+04 | 52.422 | 3223.504 | .261 | .00312 |
| 121. | 3234.001 | .216 | .22E-05 | 0.00 | .60E-06 | 127.763 | .30E-05 | 82.130 | .512E+04 | 52.744 | 3223.606 | -.053 | .00321 |
| 122. | 3234.029 | -.160 | .22E-05 | 0.00 | .57E-06 | 133.397 | .30E-05 | 81.954 | .519E+04 | 53.081 | 3223.399 | -.368 | .00329 |
| 123. | 3233.685 | -.537 | .22E-05 | 0.00 | .55E-06 | 139.655 | .30E-05 | 81.790 | .525E+04 | 53.424 | 3222.884 | -.678 | .00334 |
| 124. | 3232.972 | -.909 | .22E-05 | 0.00 | .53E-06 | 146.465 | .30E-05 | 81.640 | .529E+04 | 53.760 | 3222.070 | -.978 | .00337 |
| 125. | 3231.900 | -1.266 | .22E-05 | 0.00 | .52E-06 | 153.689 | .30E-05 | 81.505 | .531E+04 | 54.080 | 3220.971 | -1.260 | .00338 |
| 126. | 3230.487 | -1.601 | .22E-05 | 0.00 | .51E-06 | 161.128 | .30E-05 | 81.387 | .531E+04 | 54.372 | 3219.604 | -1.521 | .00337 |
| 127. | 3228.757 | -1.908 | .22E-05 | 0.00 | .51E-06 | 168.550 | .30E-05 | 81.287 | .530E+04 | 54.624 | 3217.995 | -1.755 | .00333 |
| 128. | 3226.744 | -2.180 | .22E-05 | 0.00 | .52E-06 | 175.734 | .30E-05 | 81.206 | .527E+04 | 54.825 | 3216.172 | -1.959 | .00328 |
| 129. | 3224.482 | -2.414 | .22E-05 | 0.00 | .54E-06 | -177.496 | .30E-05 | 81.146 | .521E+04 | 54.963 | 3214.167 | -2.130 | .00320 |
| 130. | 3222.014 | -2.604 | .22E-05 | 0.00 | .55E-06 | -171.245 | .30E-05 | 81.106 | .515E+04 | 55.028 | 3212.012 | -2.265 | .00310 |
| 131. | 3219.381 | -2.750 | .22E-05 | 0.00 | .58E-06 | -165.559 | .30E-05 | 81.089 | .506E+04 | 55.007 | 3209.744 | -2.365 | .00299 |
| 132. | 3216.630 | -2.851 | .21E-05 | 0.00 | .60E-06 | -160.430 | .30E-05 | 81.095 | .497E+04 | 54.888 | 3207.397 | -2.428 | .00287 |
| 133. | 3213.805 | -2.906 | .21E-05 | 0.00 | .63E-06 | -155.821 | .29E-05 | 81.123 | .486E+04 | 54.659 | 3205.009 | -2.455 | .00274 |
| 134. | 3210.951 | -2.916 | .21E-05 | 0.00 | .65E-06 | -151.680 | .29E-05 | 81.173 | .474E+04 | 54.306 | 3202.613 | -2.447 | .00260 |
| 135. | 3208.109 | -2.885 | .21E-05 | 0.00 | .68E-06 | -147.949 | .29E-05 | 81.247 | .461E+04 | 53.815 | 3200.243 | -2.405 | .00245 |
| 136. | 3205.321 | -2.812 | .21E-05 | 0.00 | .70E-06 | -144.572 | .29E-05 | 81.342 | .448E+04 | 53.173 | 3197.932 | -2.331 | .00231 |
| 137. | 3202.625 | -2.703 | .21E-05 | 0.00 | .73E-06 | -141.499 | .29E-05 | 81.459 | .434E+04 | 52.363 | 3195.709 | -2.228 | .00216 |
| 138. | 3200.054 | -2.559 | .20E-05 | 0.00 | .75E-06 | -138.686 | .29E-05 | 81.597 | .419E+04 | 51.368 | 3193.601 | -2.097 | .00202 |
| 139. | 3197.642 | -2.384 | .20E-05 | 0.00 | .77E-06 | -136.093 | .29E-05 | 81.755 | .405E+04 | 50.173 | 3191.634 | -1.942 | .00188 |
| 140. | 3195.416 | -2.181 | .20E-05 | 0.00 | .79E-06 | -133.690 | .29E-05 | 81.932 | .391E+04 | 48.760 | 3189.831 | -1.764 | .00175 |
| 141. | 3193.401 | -1.954 | .20E-05 | 0.00 | .81E-06 | -131.450 | .28E-05 | 82.127 | .378E+04 | 47.115 | 3188.212 | -1.566 | .00162 |
| 142. | 3191.619 | -1.706 | .20E-05 | 0.00 | .83E-06 | -129.349 | .28E-05 | 82.339 | .364E+04 | 45.222 | 3186.794 | -1.351 | .00151 |
| 143. | 3190.090 | -1.439 | .20E-05 | 0.00 | .84E-06 | -127.370 | .28E-05 | 82.566 | .352E+04 | 43.073 | 3185.594 | -1.121 | .00141 |
| 144. | 3188.827 | -1.158 | .20E-05 | 0.00 | .86E-06 | -125.498 | .28E-05 | 82.807 | .341E+04 | 40.663 | 3184.622 | -.879 | .00132 |
| 145. | 3187.844 | -.865 | .20E-05 | 0.00 | .87E-06 | -123.719 | .28E-05 | 83.062 | .331E+04 | 37.995 | 3183.891 | -.627 | .00124 |
| 146. | 3187.150 | -.563 | .20E-05 | 0.00 | .88E-06 | -122.024 | .28E-05 | 83.327 | .322E+04 | 35.082 | 3183.407 | -.369 | .00117 |
| 147. | 3186.753 | -.255 | .19E-05 | 0.00 | .89E-06 | -120.403 | .28E-05 | 83.603 | .315E+04 | 31.951 | 3183.177 | -.105 | .00112 |
| 148. | 3186.655 | .055 | .19E-05 | 0.00 | .89E-06 | -118.850 | .28E-05 | 83.887 | .310E+04 | 28.638 | 3183.204 | .161 | .00108 |
| 149. | 3186.860 | .367 | .19E-05 | 0.00 | .90E-06 | -117.358 | .28E-05 | 84.179 | .306E+04 | 25.193 | 3183.490 | .427 | .00106 |

EULER ANGLES 0 0 THETA WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3187.367 | .676 | .19E-05 | 0.00 | .90E-06 | -115.924 | .28E-05 | 84.476 | .305E+04 | 21.676 | 3184.032 | .691 | .00105 |
| 151. | 3188.171 | .981 | .19E-05 | 0.00 | .90E-06 | -114.542 | .28E-05 | 84.776 | .305E+04 | 18.151 | 3184.829 | .951 | .00105 |
| 152. | 3189.269 | 1.278 | .19E-05 | 0.00 | .90E-06 | -113.211 | .28E-05 | 85.080 | .308E+04 | 14.682 | 3185.876 | 1.205 | .00106 |
| 153. | 3190.653 | 1.567 | .19E-05 | 0.00 | .90E-06 | -111.926 | .28E-05 | 85.385 | .312E+04 | 11.330 | 3187.166 | 1.451 | .00109 |
| 154. | 3192.313 | 1.845 | .19E-05 | 0.00 | .90E-06 | -110.687 | .28E-05 | 85.690 | .318E+04 | 8.143 | 3188.691 | 1.687 | .00113 |
| 155. | 3194.238 | 2.109 | .19E-05 | 0.00 | .90E-06 | -109.492 | .28E-05 | 85.993 | .326E+04 | 5.161 | 3190.440 | 1.910 | .00119 |
| 156. | 3196.415 | 2.359 | .19E-05 | 0.00 | .89E-06 | -108.340 | .28E-05 | 86.293 | .335E+04 | 2.409 | 3192.401 | 2.120 | .00126 |
| 157. | 3198.829 | 2.591 | .19E-05 | 0.00 | .88E-06 | -107.229 | .28E-05 | 86.589 | .345E+04 | -.100 | 3194.560 | 2.315 | .00133 |
| 158. | 3201.462 | 2.804 | .19E-05 | 0.00 | .87E-06 | -106.159 | .28E-05 | 86.880 | .357E+04 | -2.362 | 3196.903 | 2.492 | .00142 |
| 159. | 3204.297 | 2.997 | .19E-05 | 0.00 | .86E-06 | -105.130 | .26E-05 | 87.165 | .370E+04 | -4.382 | 3199.411 | 2.651 | .00152 |
| 160. | 3207.311 | 3.167 | .19E-05 | 0.00 | .85E-06 | -104.142 | .28E-05 | 87.442 | .383E+04 | -6.171 | 3202.066 | 2.789 | .00164 |
| 161. | 3210.483 | 3.313 | .19E-05 | 0.00 | .83E-06 | -103.194 | .28E-05 | 87.710 | .397E+04 | -7.743 | 3204.848 | 2.905 | .00176 |
| 162. | 3213.789 | 3.432 | .20E-05 | 0.00 | .81E-06 | -102.286 | .28E-05 | 87.969 | .411E+04 | -9.114 | 3207.736 | 2.998 | .00188 |
| 163. | 3217.203 | 3.525 | .20E-05 | 0.00 | .79E-06 | -101.420 | .28E-05 | 88.218 | .426E+04 | -10.304 | 3210.706 | 3.067 | .00202 |
| 164. | 3220.697 | 3.587 | .20E-05 | 0.00 | .77E-06 | -100.595 | .28E-05 | 88.455 | .441E+04 | -11.328 | 3213.733 | 3.109 | .00216 |
| 165. | 3224.241 | 3.619 | .20E-05 | 0.00 | .74E-06 | -99.813 | .28E-05 | 88.681 | .457E+04 | -12.204 | 3216.791 | 3.125 | .00231 |
| 166. | 3227.805 | 3.618 | .20E-05 | 0.00 | .71E-06 | -99.073 | .28E-05 | 88.894 | .472E+04 | -12.948 | 3219.853 | 3.112 | .00246 |
| 167. | 3231.355 | 3.584 | .20E-05 | 0.00 | .68E-06 | -98.376 | .28E-05 | 89.094 | .487E+04 | -13.577 | 3222.891 | 3.069 | .00262 |
| 168. | 3234.857 | 3.513 | .20E-05 | 0.00 | .65E-06 | -97.724 | .28E-05 | 89.280 | .501E+04 | -14.103 | 3225.876 | 2.997 | .00278 |
| 169. | 3238.276 | 3.407 | .20E-05 | 0.00 | .61E-06 | -97.118 | .29E-05 | 89.453 | .516E+04 | -14.541 | 3228.777 | 2.894 | .00293 |
| 170. | 3241.574 | 3.263 | .20E-05 | 0.00 | .57E-06 | -96.558 | .29E-05 | 89.611 | .530E+04 | -14.901 | 3231.563 | 2.760 | .00309 |
| 171. | 3244.713 | 3.080 | .20E-05 | 0.00 | .52E-06 | -96.046 | .29E-05 | 89.754 | .543E+04 | -15.194 | 3234.204 | 2.595 | .00324 |
| 172. | 3247.656 | 2.860 | .21E-05 | 0.00 | .47E-06 | -95.583 | .29E-05 | 89.883 | .555E+04 | -15.431 | 3236.669 | 2.400 | .00338 |
| 173. | 3250.365 | 2.603 | .21E-05 | 0.00 | .42E-06 | -95.171 | .29E-05 | 89.996 | .567E+04 | -15.619 | 3238.929 | 2.175 | .00352 |
| 174. | 3252.802 | 2.310 | .21E-05 | 0.00 | .37E-06 | -94.810 | .29E-05 | 90.095 | .577E+04 | -15.766 | 3240.955 | 1.923 | .00364 |
| 175. | 3254.933 | 1.983 | .21E-05 | 0.00 | .31E-06 | -94.502 | .29E-05 | 90.178 | .586E+04 | -15.880 | 3242.719 | 1.646 | .00375 |
| 176. | 3256.726 | 1.626 | .21E-05 | 0.00 | .25E-06 | -94.248 | .29E-05 | 90.247 | .594E+04 | -15.965 | 3244.199 | 1.346 | .00385 |
| 177. | 3258.152 | 1.244 | .21E-05 | 0.00 | .19E-06 | -94.049 | .29E-05 | 90.300 | .600E+04 | -16.026 | 3245.373 | 1.027 | .00392 |
| 178. | 3259.189 | .841 | .21E-05 | 0.00 | .13E-06 | -93.907 | .29E-05 | 90.338 | .604E+04 | -16.067 | 3246.224 | .693 | .00398 |
| 179. | 3259.818 | .424 | .21E-05 | 0.00 | .65E-07 | -93.821 | .29E-05 | 90.360 | .607E+04 | -16.090 | 3246.740 | .349 | .00401 |
| 180. | 3260.028 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.368 | .608E+04 | -16.098 | 3246.913 | 0.000 | .00402 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 22 22.5 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3392.347 | -.319 | .24E-05 | 0.00 | .26E-06 | 92.525 | .27E-05 | 86.391 | .886E+04 | 92.163 | 3363.299 | -.410 | .00856 |
| 1. | 3393.681 | -1.104 | .24E-05 | 0.00 | .19E-06 | 97.677 | .28E-05 | 86.363 | .890E+04 | 92.856 | 3364.291 | -.979 | .00866 |
| 2. | 3394.551 | -1.863 | .24E-05 | 0.00 | .11E-06 | 110.191 | .28E-05 | 86.327 | .892E+04 | 93.646 | 3364.954 | -1.531 | .00872 |
| 3. | 3394.947 | -2.573 | .24E-05 | 0.00 | .52E-07 | 160.320 | .28E-05 | 86.285 | .891E+04 | 94.530 | 3365.283 | -2.055 | .00874 |
| 4. | 3394.871 | -3.214 | .24E-05 | 0.00 | .90E-07 | -131.864 | .28E-05 | 86.237 | .887E+04 | 95.503 | 3365.277 | -2.541 | .00872 |
| 5. | 3394.334 | -3.772 | .24E-05 | 0.00 | .17E-06 | -114.816 | .28E-05 | 86.185 | .881E+04 | 96.558 | 3364.941 | -2.982 | .00866 |
| 6. | 3393.359 | -4.237 | .24E-05 | 0.00 | .24E-06 | -108.569 | .28E-05 | 86.130 | .873E+04 | 97.684 | 3364.282 | -3.370 | .00857 |
| 7. | 3391.973 | -4.606 | .24E-05 | 0.00 | .32E-06 | -105.295 | .28E-05 | 86.074 | .864E+04 | 98.875 | 3363.315 | -3.701 | .00845 |
| 8. | 3390.213 | -4.879 | .24E-05 | 0.00 | .39E-06 | -103.212 | .28E-05 | 86.017 | .853E+04 | 100.119 | 3362.055 | -3.974 | .00831 |
| 9. | 3388.114 | -5.063 | .24E-05 | 0.00 | .46E-06 | -101.714 | .28E-05 | 85.961 | .842E+04 | 101.409 | 3360.521 | -4.186 | .00814 |
| 10. | 3385.716 | -5.165 | .24E-05 | 0.00 | .52E-06 | -100.539 | .28E-05 | 85.907 | .829E+04 | 102.736 | 3358.732 | -4.341 | .00797 |
| 11. | 3383.053 | -5.196 | .24E-05 | 0.00 | .58E-06 | -99.557 | .28E-05 | 85.857 | .817E+04 | 104.093 | 3356.709 | -4.440 | .00779 |
| 12. | 3380.162 | -5.164 | .24E-05 | 0.00 | .63E-06 | -98.696 | .28E-05 | 85.810 | .804E+04 | 105.472 | 3354.474 | -4.488 | .00760 |
| 13. | 3377.073 | -5.079 | .24E-05 | 0.00 | .67E-06 | -97.910 | .27E-05 | 85.768 | .792E+04 | 106.869 | 3352.048 | -4.489 | .00741 |
| 14. | 3373.815 | -4.950 | .24E-05 | 0.00 | .72E-06 | -97.175 | .27E-05 | 85.731 | .779E+04 | 108.278 | 3349.451 | -4.448 | .00722 |
| 15. | 3370.414 | -4.784 | .23E-05 | 0.00 | .76E-06 | -96.470 | .27E-05 | 85.700 | .767E+04 | 109.694 | 3346.701 | -4.369 | .00704 |
| 16. | 3366.892 | -4.588 | .23E-05 | 0.00 | .79E-06 | -95.785 | .27E-05 | 85.675 | .755E+04 | 111.115 | 3343.817 | -4.257 | .00685 |
| 17. | 3363.267 | -4.368 | .23E-05 | 0.00 | .82E-06 | -95.111 | .27E-05 | 85.657 | .744E+04 | 112.536 | 3340.814 | -4.116 | .00668 |
| 18. | 3359.558 | -4.128 | .23E-05 | 0.00 | .85E-06 | -94.441 | .27E-05 | 85.646 | .732E+04 | 113.955 | 3337.709 | -3.951 | .00650 |
| 19. | 3355.777 | -3.874 | .23E-05 | 0.00 | .87E-06 | -93.773 | .27E-05 | 85.643 | .722E+04 | 115.369 | 3334.513 | -3.765 | .00634 |
| 20. | 3351.939 | -3.607 | .23E-05 | 0.00 | .90E-06 | -93.103 | .27E-05 | 85.646 | .711E+04 | 116.776 | 3331.240 | -3.562 | .00618 |
| 21. | 3348.054 | -3.332 | .23E-05 | 0.00 | .92E-06 | -92.430 | .27E-05 | 85.658 | .701E+04 | 118.175 | 3327.901 | -3.345 | .00602 |
| 22. | 3344.130 | -3.051 | .23E-05 | 0.00 | .93E-06 | -91.751 | .27E-05 | 85.677 | .691E+04 | 119.564 | 3324.505 | -3.117 | .00587 |
| 23. | 3340.178 | -2.766 | .23E-05 | 0.00 | .95E-06 | -91.067 | .27E-05 | 85.703 | .681E+04 | 120.940 | 3321.062 | -2.879 | .00572 |
| 24. | 3336.203 | -2.479 | .23E-05 | 0.00 | .96E-06 | -90.377 | .27E-05 | 85.738 | .672E+04 | 122.304 | 3317.580 | -2.635 | .00558 |
| 25. | 3332.213 | -2.192 | .23E-05 | 0.00 | .97E-06 | -89.680 | .27E-05 | 85.780 | .663E+04 | 123.653 | 3314.067 | -2.387 | .00545 |
| 26. | 3328.212 | -1.906 | .23E-05 | 0.00 | .98E-06 | -88.976 | .27E-05 | 85.830 | .654E+04 | 124.987 | 3310.528 | -2.135 | .00531 |
| 27. | 3324.207 | -1.622 | .22E-05 | 0.00 | .99E-06 | -88.266 | .27E-05 | 85.887 | .645E+04 | 126.305 | 3306.970 | -1.882 | .00519 |
| 28. | 3320.201 | -1.342 | .22E-05 | 0.00 | .10E-05 | -87.551 | .27E-05 | 85.952 | .637E+04 | 127.605 | 3303.398 | -1.630 | .00506 |
| 29. | 3316.200 | -1.066 | .22E-05 | 0.00 | .10E-05 | -86.829 | .27E-05 | 86.024 | .628E+04 | 128.888 | 3299.819 | -1.378 | .00494 |
| 30. | 3312.206 | -.796 | .22E-05 | 0.00 | .10E-05 | -86.102 | .27E-05 | 86.104 | .620E+04 | 130.153 | 3296.236 | -1.130 | .00482 |
| 31. | 3308.225 | -.532 | .22E-05 | 0.00 | .10E-05 | -85.370 | .27E-05 | 86.191 | .612E+04 | 131.399 | 3292.653 | -.885 | .00471 |
| 32. | 3304.259 | -.275 | .22E-05 | 0.00 | .10E-05 | -84.634 | .28E-05 | 86.284 | .604E+04 | 132.626 | 3289.076 | -.644 | .00459 |
| 33. | 3300.312 | -.025 | .22E-05 | 0.00 | .10E-05 | -83.894 | .28E-05 | 86.385 | .596E+04 | 133.834 | 3285.508 | -.408 | .00449 |
| 34. | 3296.388 | .216 | .22E-05 | 0.00 | .10E-05 | -83.151 | .28E-05 | 86.491 | .588E+04 | 135.022 | 3281.953 | -.179 | .00438 |
| 35. | 3292.489 | .449 | .22E-05 | 0.00 | .10E-05 | -82.404 | .28E-05 | 86.604 | .581E+04 | 136.191 | 3278.414 | .044 | .00427 |
| 36. | 3288.619 | .673 | .22E-05 | 0.00 | .10E-05 | -81.654 | .28E-05 | 86.723 | .573E+04 | 137.340 | 3274.896 | .260 | .00417 |
| 37. | 3284.781 | .888 | .22E-05 | 0.00 | .10E-05 | -80.903 | .28E-05 | 86.848 | .566E+04 | 138.470 | 3271.401 | .468 | .00407 |
| 38. | 3280.978 | 1.094 | .22E-05 | 0.00 | .10E-05 | -80.149 | .28E-05 | 86.978 | .558E+04 | 139.580 | 3267.933 | .668 | .00398 |
| 39. | 3277.214 | 1.289 | .22E-05 | 0.00 | .99E-06 | -79.393 | .28E-05 | 87.114 | .551E+04 | 140.671 | 3264.496 | .860 | .00388 |
| 40. | 3273.491 | 1.475 | .22E-05 | 0.00 | .98E-06 | -78.636 | .28E-05 | 87.254 | .544E+04 | 141.743 | 3261.092 | 1.044 | .00379 |
| 41. | 3269.812 | 1.651 | .22E-05 | 0.00 | .98E-06 | -77.878 | .28E-05 | 87.398 | .537E+04 | 142.797 | 3257.724 | 1.219 | .00370 |
| 42. | 3266.181 | 1.816 | .22E-05 | 0.00 | .97E-06 | -77.119 | .28E-05 | 87.547 | .530E+04 | 143.833 | 3254.396 | 1.384 | .00361 |
| 43. | 3262.601 | 1.972 | .22E-05 | 0.00 | .96E-06 | -76.358 | .28E-05 | 87.700 | .523E+04 | 144.851 | 3251.110 | 1.541 | .00352 |
| 44. | 3259.074 | 2.117 | .22E-05 | 0.00 | .95E-06 | -75.597 | .28E-05 | 87.857 | .516E+04 | 145.852 | 3247.870 | 1.688 | .00344 |
| 45. | 3255.603 | 2.252 | .22E-05 | 0.00 | .94E-06 | -74.834 | .28E-05 | 88.017 | .509E+04 | 146.837 | 3244.678 | 1.827 | .00336 |
| 46. | 3252.191 | 2.378 | .22E-05 | 0.00 | .93E-06 | -74.070 | .28E-05 | 88.180 | .503E+04 | 147.806 | 3241.538 | 1.956 | .00328 |
| 47. | 3248.840 | 2.493 | .22E-05 | 0.00 | .92E-06 | -73.305 | .28E-05 | 88.346 | .496E+04 | 148.760 | 3238.451 | 2.076 | .00320 |
| 48. | 3245.554 | 2.599 | .22E-05 | 0.00 | .91E-06 | -72.538 | .28E-05 | 88.515 | .490E+04 | 149.700 | 3235.420 | 2.187 | .00312 |
| 49. | 3242.335 | 2.695 | .22E-05 | 0.00 | .90E-06 | -71.769 | .29E-05 | 88.686 | .484E+04 | 150.626 | 3232.448 | 2.290 | .00305 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 22 22.5 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3239.184 | 2.782 | .22E-05 | 0.00 | .89E-06 | -70.997 | .29E-05 | 88.859 | .478E+04 | 151.540 | 3229.536 | 2.383 | .00298 |
| 51. | 3236.104 | 2.860 | .22E-05 | 0.00 | .87E-06 | -70.223 | .29E-05 | 89.033 | .472E+04 | 152.441 | 3226.688 | 2.468 | .00291 |
| 52. | 3233.098 | 2.929 | .22E-05 | 0.00 | .86E-06 | -69.445 | .29E-05 | 89.209 | .466E+04 | 153.331 | 3223.905 | 2.544 | .00284 |
| 53. | 3230.167 | 2.989 | .22E-05 | 0.00 | .85E-06 | -68.663 | .29E-05 | 89.387 | .460E+04 | 154.211 | 3221.190 | 2.612 | .00278 |
| 54. | 3227.312 | 3.041 | .22E-05 | 0.00 | .83E-06 | -67.875 | .29E-05 | 89.565 | .455E+04 | 155.081 | 3218.543 | 2.672 | .00272 |
| 55. | 3224.536 | 3.084 | .22E-05 | 0.00 | .82E-06 | -67.083 | .29E-05 | 89.744 | .449E+04 | 155.943 | 3215.966 | 2.724 | .00266 |
| 56. | 3221.840 | 3.120 | .22E-05 | 0.00 | .80E-06 | -66.283 | .29E-05 | 89.924 | .444E+04 | 156.796 | 3213.462 | 2.768 | .00260 |
| 57. | 3219.225 | 3.147 | .22E-05 | 0.00 | .79E-06 | -65.476 | .29E-05 | 90.104 | .439E+04 | 157.643 | 3211.031 | 2.804 | .00255 |
| 58. | 3216.692 | 3.167 | .22E-05 | 0.00 | .77E-06 | -64.659 | .29E-05 | 90.285 | .434E+04 | 158.482 | 3208.674 | 2.833 | .00249 |
| 59. | 3214.242 | 3.180 | .21E-05 | 0.00 | .75E-06 | -63.833 | .29E-05 | 90.465 | .430E+04 | 159.317 | 3206.393 | 2.855 | .00244 |
| 60. | 3211.875 | 3.186 | .21E-05 | 0.00 | .74E-06 | -62.995 | .29E-05 | 90.646 | .425E+04 | 160.146 | 3204.188 | 2.870 | .00239 |
| 61. | 3209.593 | 3.185 | .21E-05 | 0.00 | .72E-06 | -62.143 | .29E-05 | 90.826 | .421E+04 | 160.971 | 3202.059 | 2.878 | .00235 |
| 62. | 3207.395 | 3.177 | .21E-05 | 0.00 | .70E-06 | -61.277 | .29E-05 | 91.006 | .417E+04 | 161.793 | 3200.008 | 2.880 | .00230 |
| 63. | 3205.282 | 3.163 | .21E-05 | 0.00 | .68E-06 | -60.393 | .29E-05 | 91.185 | .413E+04 | 162.612 | 3198.034 | 2.875 | .00226 |
| 64. | 3203.253 | 3.143 | .21E-05 | 0.00 | .67E-06 | -59.490 | .29E-05 | 91.363 | .409E+04 | 163.430 | 3196.138 | 2.864 | .00222 |
| 65. | 3201.308 | 3.116 | .21E-05 | 0.00 | .65E-06 | -58.564 | .29E-05 | 91.540 | .406E+04 | 164.246 | 3194.319 | 2.847 | .00218 |
| 66. | 3199.447 | 3.084 | .21E-05 | 0.00 | .63E-06 | -57.614 | .29E-05 | 91.716 | .402E+04 | 165.061 | 3192.578 | 2.825 | .00215 |
| 67. | 3197.670 | 3.046 | .21E-05 | 0.00 | .61E-06 | -56.636 | .29E-05 | 91.891 | .399E+04 | 165.876 | 3190.914 | 2.796 | .00211 |
| 68. | 3195.975 | 3.003 | .21E-05 | 0.00 | .59E-06 | -55.626 | .29E-05 | 92.064 | .396E+04 | 166.692 | 3189.326 | 2.762 | .00208 |
| 69. | 3194.361 | 2.954 | .21E-05 | 0.00 | .57E-06 | -54.580 | .29E-05 | 92.236 | .393E+04 | 167.509 | 3187.813 | 2.723 | .00205 |
| 70. | 3192.829 | 2.900 | .21E-05 | 0.00 | .55E-06 | -53.493 | .29E-05 | 92.407 | .390E+04 | 168.328 | 3186.376 | 2.679 | .00202 |
| 71. | 3191.375 | 2.841 | .21E-05 | 0.00 | .53E-06 | -52.359 | .29E-05 | 92.575 | .388E+04 | 169.150 | 3185.013 | 2.629 | .00199 |
| 72. | 3190.000 | 2.777 | .21E-05 | 0.00 | .51E-06 | -51.172 | .29E-05 | 92.741 | .385E+04 | 169.974 | 3183.722 | 2.575 | .00197 |
| 73. | 3188.702 | 2.708 | .21E-05 | 0.00 | .50E-06 | -49.925 | .29E-05 | 92.905 | .383E+04 | 170.802 | 3182.503 | 2.515 | .00194 |
| 74. | 3187.479 | 2.635 | .21E-05 | 0.00 | .47E-06 | -48.608 | .29E-05 | 93.067 | .381E+04 | 171.635 | 3181.355 | 2.452 | .00192 |
| 75. | 3186.330 | 2.557 | .21E-05 | 0.00 | .45E-06 | -47.211 | .29E-05 | 93.226 | .379E+04 | 172.472 | 3180.275 | 2.383 | .00190 |
| 76. | 3185.252 | 2.475 | .21E-05 | 0.00 | .44E-06 | -45.721 | .29E-05 | 93.383 | .377E+04 | 173.315 | 3179.263 | 2.311 | .00188 |
| 77. | 3184.245 | 2.388 | .21E-05 | 0.00 | .42E-06 | -44.125 | .29E-05 | 93.536 | .376E+04 | 174.163 | 3178.317 | 2.234 | .00186 |
| 78. | 3183.307 | 2.298 | .21E-05 | 0.00 | .40E-06 | -42.406 | .29E-05 | 93.687 | .374E+04 | 175.019 | 3177.435 | 2.153 | .00184 |
| 79. | 3182.434 | 2.203 | .21E-05 | 0.00 | .38E-06 | -40.542 | .29E-05 | 93.834 | .373E+04 | 175.881 | 3176.616 | 2.068 | .00183 |
| 80. | 3181.627 | 2.104 | .21E-05 | 0.00 | .36E-06 | -38.509 | .29E-05 | 93.979 | .371E+04 | 176.752 | 3175.858 | 1.979 | .00181 |
| 81. | 3180.882 | 2.002 | .21E-05 | 0.00 | .34E-06 | -36.279 | .29E-05 | 94.119 | .370E+04 | 177.630 | 3175.160 | 1.887 | .00180 |
| 82. | 3180.199 | 1.896 | .21E-05 | 0.00 | .32E-06 | -33.816 | .29E-05 | 94.256 | .369E+04 | 178.518 | 3174.519 | 1.791 | .00179 |
| 83. | 3179.574 | 1.786 | .21E-05 | 0.00 | .30E-06 | -31.079 | .29E-05 | 94.389 | .368E+04 | 179.415 | 3173.935 | 1.691 | .00177 |
| 84. | 3179.008 | 1.673 | .21E-05 | 0.00 | .28E-06 | -28.020 | .29E-05 | 94.518 | .367E+04 | -179.679 | 3173.405 | 1.589 | .00176 |
| 85. | 3178.496 | 1.557 | .21E-05 | 0.00 | .26E-06 | -24.582 | .29E-05 | 94.643 | .366E+04 | -178.761 | 3172.929 | 1.483 | .00175 |
| 86. | 3178.040 | 1.438 | .21E-05 | 0.00 | .25E-06 | -20.702 | .29E-05 | 94.763 | .366E+04 | -177.833 | 3172.504 | 1.374 | .00174 |
| 87. | 3177.635 | 1.315 | .21E-05 | 0.00 | .23E-06 | -16.313 | .29E-05 | 94.879 | .365E+04 | -176.893 | 3172.129 | 1.262 | .00173 |
| 88. | 3177.282 | 1.190 | .21E-05 | 0.00 | .22E-06 | -11.348 | .29E-05 | 94.991 | .365E+04 | -175.942 | 3171.803 | 1.147 | .00172 |
| 89. | 3176.979 | 1.062 | .21E-05 | 0.00 | .20E-06 | -5.753 | .29E-05 | 95.097 | .364E+04 | -174.978 | 3171.525 | 1.030 | .00172 |
| 90. | 3176.724 | .932 | .21E-05 | 0.00 | .19E-06 | .493 | .29E-05 | 95.199 | .364E+04 | -174.002 | 3171.293 | .911 | .00171 |
| 91. | 3176.517 | .799 | .21E-05 | 0.00 | .18E-06 | 7.362 | .29E-05 | 95.297 | .364E+04 | -173.014 | 3171.108 | .789 | .00170 |
| 92. | 3176.357 | .664 | .21E-05 | 0.00 | .18E-06 | 14.751 | .29E-05 | 95.389 | .363E+04 | -172.012 | 3170.967 | .665 | .00170 |
| 93. | 3176.244 | .527 | .21E-05 | 0.00 | .18E-06 | 22.472 | .29E-05 | 95.476 | .363E+04 | -170.998 | 3170.870 | .539 | .00169 |
| 94. | 3176.175 | .388 | .21E-05 | 0.00 | .18E-06 | 30.279 | .29E-05 | 95.558 | .363E+04 | -169.971 | 3170.818 | .411 | .00169 |
| 95. | 3176.153 | .248 | .21E-05 | 0.00 | .18E-06 | 37.902 | .29E-05 | 95.635 | .363E+04 | -168.931 | 3170.809 | .282 | .00168 |
| 96. | 3176.175 | .105 | .21E-05 | 0.00 | .18E-06 | 45.106 | .29E-05 | 95.708 | .363E+04 | -167.879 | 3170.843 | .151 | .00168 |
| 97. | 3176.242 | -.038 | .21E-05 | 0.00 | .19E-06 | 51.729 | .29E-05 | 95.775 | .363E+04 | -166.813 | 3170.921 | .019 | .00168 |
| 98. | 3176.355 | -.183 | .21E-05 | 0.00 | .20E-06 | 57.690 | .29E-05 | 95.837 | .363E+04 | -165.736 | 3171.042 | -.114 | .00167 |
| 99. | 3176.513 | -.329 | .21E-05 | 0.00 | .22E-06 | 62.976 | .29E-05 | 95.894 | .364E+04 | -164.647 | 3171.207 | -.248 | .00167 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 22 22.5 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3176.717 | -.475 | .21E-05 | 0.00 | .23E-06 | 67.623 | .29E-05 | 95.947 | .364E+04 | -163.547 | 3171.416 | -.383 | .00167 |
| 101. | 3176.968 | -.623 | .21E-05 | 0.00 | .25E-06 | 71.688 | .29E-05 | 95.995 | .364E+04 | -162.435 | 3171.670 | -.519 | .00167 |
| 102. | 3177.266 | -.771 | .21E-05 | 0.00 | .26E-06 | 75.240 | .29E-05 | 96.038 | .365E+04 | -161.314 | 3171.970 | -.655 | .00167 |
| 103. | 3177.613 | -.919 | .21E-05 | 0.00 | .28E-06 | 78.345 | .29E-05 | 96.077 | .365E+04 | -160.183 | 3172.316 | -.792 | .00167 |
| 104. | 3178.009 | -1.068 | .21E-05 | 0.00 | .30E-06 | 81.067 | .29E-05 | 96.112 | .366E+04 | -159.043 | 3172.710 | -.929 | .00167 |
| 105. | 3178.455 | -1.217 | .21E-05 | 0.00 | .31E-06 | 83.459 | .29E-05 | 96.142 | .366E+04 | -157.894 | 3173.152 | -1.066 | .00167 |
| 106. | 3178.954 | -1.366 | .21E-05 | 0.00 | .33E-06 | 85.570 | .29E-05 | 96.168 | .367E+04 | -156.738 | 3173.644 | -1.203 | .00167 |
| 107. | 3179.505 | -1.515 | .21E-05 | 0.00 | .35E-06 | 87.437 | .29E-05 | 96.191 | .367E+04 | -155.575 | 3174.187 | -1.340 | .00167 |
| 108. | 3180.111 | -1.664 | .21E-05 | 0.00 | .37E-06 | 89.097 | .29E-05 | 96.210 | .368E+04 | -154.406 | 3174.783 | -1.477 | .00168 |
| 109. | 3180.774 | -1.813 | .21E-05 | 0.00 | .39E-06 | 90.576 | .29E-05 | 96.225 | .369E+04 | -153.232 | 3175.432 | -1.614 | .00168 |
| 110. | 3181.493 | -1.961 | .21E-05 | 0.00 | .41E-06 | 91.899 | .29E-05 | 96.237 | .370E+04 | -152.053 | 3176.137 | -1.751 | .00168 |
| 111. | 3182.272 | -2.109 | .21E-05 | 0.00 | .42E-06 | 93.087 | .29E-05 | 96.246 | .371E+04 | -150.870 | 3176.899 | -1.887 | .00169 |
| 112. | 3183.111 | -2.257 | .21E-05 | 0.00 | .44E-06 | 94.155 | .29E-05 | 96.252 | .372E+04 | -149.683 | 3177.719 | -2.022 | .00169 |
| 113. | 3184.013 | -2.404 | .21E-05 | 0.00 | .46E-06 | 95.118 | .29E-05 | 96.255 | .373E+04 | -148.494 | 3178.598 | -2.157 | .00170 |
| 114. | 3184.978 | -2.550 | .21E-05 | 0.00 | .48E-06 | 95.990 | .28E-05 | 96.255 | .375E+04 | -147.303 | 3179.540 | -2.292 | .00171 |
| 115. | 3186.009 | -2.696 | .21E-05 | 0.00 | .50E-06 | 96.779 | .28E-05 | 96.253 | .376E+04 | -146.110 | 3180.544 | -2.425 | .00172 |
| 116. | 3187.107 | -2.840 | .21E-05 | 0.00 | .51E-06 | 97.496 | .28E-05 | 96.248 | .377E+04 | -144.915 | 3181.612 | -2.558 | .00172 |
| 117. | 3188.273 | -2.984 | .21E-05 | 0.00 | .53E-06 | 98.148 | .28E-05 | 96.242 | .379E+04 | -143.719 | 3182.746 | -2.691 | .00173 |
| 118. | 3189.509 | -3.127 | .21E-05 | 0.00 | .55E-06 | 98.742 | .28E-05 | 96.233 | .380E+04 | -142.523 | 3183.947 | -2.822 | .00174 |
| 119. | 3190.816 | -3.270 | .21E-05 | 0.00 | .56E-06 | 99.283 | .28E-05 | 96.222 | .382E+04 | -141.326 | 3185.217 | -2.953 | .00175 |
| 120. | 3192.197 | -3.411 | .21E-05 | 0.00 | .58E-06 | 99.778 | .28E-05 | 96.210 | .384E+04 | -140.128 | 3186.557 | -3.082 | .00177 |
| 121. | 3193.651 | -3.551 | .21E-05 | 0.00 | .60E-06 | 100.230 | .28E-05 | 96.196 | .386E+04 | -138.931 | 3187.967 | -3.211 | .00178 |
| 122. | 3195.181 | -3.691 | .21E-05 | 0.00 | .61E-06 | 100.643 | .28E-05 | 96.180 | .388E+04 | -137.733 | 3189.450 | -3.338 | .00179 |
| 123. | 3196.788 | -3.829 | .21E-05 | 0.00 | .63E-06 | 101.021 | .28E-05 | 96.162 | .390E+04 | -136.535 | 3191.007 | -3.465 | .00181 |
| 124. | 3198.473 | -3.966 | .21E-05 | 0.00 | .64E-06 | 101.366 | .28E-05 | 96.143 | .392E+04 | -135.336 | 3192.637 | -3.591 | .00182 |
| 125. | 3200.237 | -4.102 | .21E-05 | 0.00 | .66E-06 | 101.683 | .28E-05 | 96.123 | .394E+04 | -134.138 | 3194.344 | -3.715 | .00184 |
| 126. | 3202.082 | -4.237 | .21E-05 | 0.00 | .67E-06 | 101.972 | .28E-05 | 96.101 | .397E+04 | -132.939 | 3196.126 | -3.838 | .00186 |
| 127. | 3204.007 | -4.371 | .21E-05 | 0.00 | .69E-06 | 102.236 | .28E-05 | 96.077 | .399E+04 | -131.740 | 3197.985 | -3.961 | .00188 |
| 128. | 3206.015 | -4.504 | .21E-05 | 0.00 | .70E-06 | 102.477 | .28E-05 | 96.053 | .402E+04 | -130.541 | 3199.922 | -4.081 | .00190 |
| 129. | 3208.106 | -4.635 | .21E-05 | 0.00 | .72E-06 | 102.697 | .27E-05 | 96.026 | .404E+04 | -129.341 | 3201.937 | -4.201 | .00192 |
| 130. | 3210.280 | -4.765 | .21E-05 | 0.00 | .73E-06 | 102.896 | .27E-05 | 95.999 | .407E+04 | -128.141 | 3204.030 | -4.319 | .00195 |
| 131. | 3212.540 | -4.894 | .21E-05 | 0.00 | .75E-06 | 103.077 | .27E-05 | 95.970 | .411E+04 | -126.941 | 3206.203 | -4.436 | .00197 |
| 132. | 3214.885 | -5.021 | .21E-05 | 0.00 | .76E-06 | 103.240 | .27E-05 | 95.940 | .414E+04 | -125.741 | 3208.455 | -4.551 | .00200 |
| 133. | 3217.316 | -5.147 | .21E-05 | 0.00 | .77E-06 | 103.386 | .27E-05 | 95.909 | .417E+04 | -124.540 | 3210.787 | -4.665 | .00203 |
| 134. | 3219.833 | -5.271 | .21E-05 | 0.00 | .79E-06 | 103.516 | .27E-05 | 95.876 | .421E+04 | -123.341 | 3213.198 | -4.776 | .00206 |
| 135. | 3222.437 | -5.394 | .21E-05 | 0.00 | .80E-06 | 103.632 | .27E-05 | 95.841 | .425E+04 | -122.142 | 3215.689 | -4.887 | .00209 |
| 136. | 3225.129 | -5.515 | .21E-05 | 0.00 | .81E-06 | 103.733 | .27E-05 | 95.805 | .429E+04 | -120.945 | 3218.260 | -4.995 | .00213 |
| 137. | 3227.908 | -5.635 | .21E-05 | 0.00 | .82E-06 | 103.820 | .27E-05 | 95.768 | .433E+04 | -119.749 | 3220.909 | -5.101 | .00217 |
| 138. | 3230.776 | -5.752 | .21E-05 | 0.00 | .83E-06 | 103.893 | .27E-05 | 95.729 | .437E+04 | -118.557 | 3223.638 | -5.205 | .00221 |
| 139. | 3233.731 | -5.868 | .21E-05 | 0.00 | .84E-06 | 103.953 | .27E-05 | 95.688 | .442E+04 | -117.367 | 3226.444 | -5.306 | .00225 |
| 140. | 3236.774 | -5.981 | .21E-05 | 0.00 | .86E-06 | 104.000 | .27E-05 | 95.646 | .447E+04 | -116.182 | 3229.328 | -5.405 | .00230 |
| 141. | 3239.905 | -6.092 | .21E-05 | 0.00 | .86E-06 | 104.035 | .27E-05 | 95.602 | .452E+04 | -115.002 | 3232.289 | -5.501 | .00235 |
| 142. | 3243.124 | -6.200 | .21E-05 | 0.00 | .88E-06 | 104.057 | .27E-05 | 95.556 | .458E+04 | -113.829 | 3235.326 | -5.594 | .00240 |
| 143. | 3246.430 | -6.306 | .21E-05 | 0.00 | .88E-06 | 104.067 | .27E-05 | 95.508 | .464E+04 | -112.664 | 3238.437 | -5.683 | .00246 |
| 144. | 3249.823 | -6.409 | .21E-05 | 0.00 | .89E-06 | 104.064 | .26E-05 | 95.459 | .470E+04 | -111.507 | 3241.622 | -5.769 | .00252 |
| 145. | 3253.303 | -6.508 | .21E-05 | 0.00 | .90E-06 | 104.049 | .26E-05 | 95.408 | .476E+04 | -110.361 | 3244.878 | -5.851 | .00259 |
| 146. | 3256.867 | -6.604 | .21E-05 | 0.00 | .91E-06 | 104.021 | .26E-05 | 95.355 | .483E+04 | -109.227 | 3248.204 | -5.929 | .00266 |
| 147. | 3260.516 | -6.696 | .21E-05 | 0.00 | .92E-06 | 103.981 | .26E-05 | 95.300 | .490E+04 | -108.106 | 3251.599 | -6.002 | .00273 |
| 148. | 3264.249 | -6.784 | .21E-05 | 0.00 | .93E-06 | 103.928 | .26E-05 | 95.243 | .498E+04 | -107.000 | 3255.060 | -6.069 | .00282 |
| 149. | 3268.063 | -6.866 | .21E-05 | 0.00 | .93E-06 | 103.862 | .26E-05 | 95.184 | .506E+04 | -105.912 | 3258.584 | -6.131 | .00290 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 22 22.5 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3271.957 | -6.944 | .21E-05 | 0.00 | .94E-06 | 103.782 | .26E-05 | 95.124 | .514E+04 | -104.842 | 3262.169 | -6.187 | .00299 |
| 151. | 3275.930 | -7.016 | .21E-05 | 0.00 | .94E-06 | 103.689 | .26E-05 | 95.062 | .522E+04 | -103.793 | 3265.812 | -6.235 | .00309 |
| 152. | 3279.979 | -7.081 | .21E-05 | 0.00 | .95E-06 | 103.582 | .26E-05 | 94.998 | .531E+04 | -102.766 | 3269.509 | -6.277 | .00319 |
| 153. | 3284.101 | -7.139 | .21E-05 | 0.00 | .95E-06 | 103.460 | .26E-05 | 94.932 | .541E+04 | -101.763 | 3273.258 | -6.309 | .00330 |
| 154. | 3288.293 | -7.189 | .21E-05 | 0.00 | .95E-06 | 103.324 | .26E-05 | 94.865 | .551E+04 | -100.786 | 3277.053 | -6.333 | .00342 |
| 155. | 3292.553 | -7.230 | .21E-05 | 0.00 | .96E-06 | 103.173 | .26E-05 | 94.797 | .561E+04 | -99.838 | 3280.890 | -6.346 | .00354 |
| 156. | 3296.876 | -7.261 | .21E-05 | 0.00 | .96E-06 | 103.006 | .26E-05 | 94.727 | .572E+04 | -98.919 | 3284.765 | -6.349 | .00367 |
| 157. | 3301.258 | -7.281 | .21E-05 | 0.00 | .96E-06 | 102.823 | .26E-05 | 94.656 | .583E+04 | -98.033 | 3288.671 | -6.339 | .00381 |
| 158. | 3305.693 | -7.288 | .21E-05 | 0.00 | .96E-06 | 102.624 | .26E-05 | 94.584 | .594E+04 | -97.181 | 3292.603 | -6.316 | .00396 |
| 159. | 3310.177 | -7.282 | .21E-05 | 0.00 | .95E-06 | 102.407 | .26E-05 | 94.512 | .606E+04 | -96.365 | 3296.555 | -6.278 | .00412 |
| 160. | 3314.703 | -7.260 | .21E-05 | 0.00 | .95E-06 | 102.172 | .26E-05 | 94.439 | .619E+04 | -95.587 | 3300.518 | -6.225 | .00428 |
| 161. | 3319.264 | -7.221 | .21E-05 | 0.00 | .94E-06 | 101.919 | .26E-05 | 94.366 | .632E+04 | -94.849 | 3304.486 | -6.154 | .00445 |
| 162. | 3323.851 | -7.163 | .21E-05 | 0.00 | .94E-06 | 101.647 | .26E-05 | 94.293 | .645E+04 | -94.154 | 3308.449 | -6.063 | .00463 |
| 163. | 3328.456 | -7.084 | .21E-05 | 0.00 | .93E-06 | 101.355 | .26E-05 | 94.221 | .658E+04 | -93.503 | 3312.398 | -5.952 | .00482 |
| 164. | 3333.068 | -6.980 | .21E-05 | 0.00 | .92E-06 | 101.041 | .26E-05 | 94.150 | .672E+04 | -92.899 | 3316.322 | -5.818 | .00502 |
| 165. | 3337.675 | -6.850 | .22E-05 | 0.00 | .90E-06 | 100.706 | .26E-05 | 94.081 | .687E+04 | -92.345 | 3320.210 | -5.660 | .00523 |
| 166. | 3342.265 | -6.690 | .22E-05 | 0.00 | .89E-06 | 100.348 | .26E-05 | 94.013 | .701E+04 | -91.843 | 3324.050 | -5.475 | .00545 |
| 167. | 3346.823 | -6.498 | .22E-05 | 0.00 | .87E-06 | 99.965 | .26E-05 | 93.949 | .716E+04 | -91.396 | 3327.828 | -5.262 | .00568 |
| 168. | 3351.331 | -6.268 | .22E-05 | 0.00 | .85E-06 | 99.555 | .26E-05 | 93.887 | .731E+04 | -91.006 | 3331.530 | -5.018 | .00591 |
| 169. | 3355.772 | -5.999 | .22E-05 | 0.00 | .82E-06 | 99.117 | .26E-05 | 93.829 | .747E+04 | -90.678 | 3335.139 | -4.743 | .00615 |
| 170. | 3360.125 | -5.685 | .22E-05 | 0.00 | .80E-06 | 98.645 | .26E-05 | 93.775 | .762E+04 | -90.413 | 3338.640 | -4.433 | .00639 |
| 171. | 3364.365 | -5.322 | .22E-05 | 0.00 | .77E-06 | 98.137 | .26E-05 | 93.726 | .778E+04 | -90.216 | 3342.013 | -4.089 | .00664 |
| 172. | 3368.467 | -4.908 | .23E-05 | 0.00 | .73E-06 | 97.586 | .26E-05 | 93.683 | .793E+04 | -90.091 | 3345.241 | -3.709 | .00690 |
| 173. | 3372.401 | -4.438 | .23E-05 | 0.00 | .69E-06 | 96.981 | .26E-05 | 93.646 | .808E+04 | -90.042 | 3348.302 | -3.292 | .00715 |
| 174. | 3376.137 | -3.910 | .23E-05 | 0.00 | .65E-06 | 96.308 | .26E-05 | 93.617 | .823E+04 | -90.073 | 3351.175 | -2.841 | .00739 |
| 175. | 3379.640 | -3.324 | .23E-05 | 0.00 | .59E-06 | 95.546 | .27E-05 | 93.594 | .837E+04 | -90.188 | 3353.840 | -2.356 | .00763 |
| 176. | 3382.872 | -2.681 | .23E-05 | 0.00 | .54E-06 | 94.657 | .27E-05 | 93.580 | .850E+04 | -90.391 | 3356.274 | -1.841 | .00786 |
| 177. | 3385.796 | -1.985 | .23E-05 | 0.00 | .48E-06 | 93.583 | .27E-05 | 93.574 | .861E+04 | -90.688 | 3358.456 | -1.300 | .00807 |
| 178. | 3388.375 | -1.243 | .24E-05 | 0.00 | .41E-06 | 92.213 | .27E-05 | 93.577 | .872E+04 | -91.080 | 3360.367 | -.739 | .00827 |
| 179. | 3390.569 | -.470 | .24E-05 | 0.00 | .34E-06 | 90.336 | .27E-05 | 93.589 | .880E+04 | -91.572 | 3361.986 | -.166 | .00843 |
| 180. | 3392.347 | .319 | .24E-05 | 0.00 | .26E-06 | 87.475 | .27E-05 | 93.609 | .886E+04 | -92.163 | 3363.299 | .410 | .00856 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3260.028 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .29E-05 | 89.632 | .608E+04 | -163.902 | 3246.913 | 0.000 | .00402 |
| 1. | 3259.979 | -.301 | .21E-05 | 0.00 | .25E-07 | -128.393 | .29E-05 | 89.629 | .607E+04 | -163.909 | 3246.873 | -.273 | .00402 |
| 2. | 3259.830 | -.599 | .21E-05 | 0.00 | .49E-07 | -128.394 | .29E-05 | 89.620 | .607E+04 | -163.930 | 3246.755 | -.543 | .00401 |
| 3. | 3259.584 | -.893 | .21E-05 | 0.00 | .74E-07 | -128.394 | .29E-05 | 89.604 | .605E+04 | -163.966 | 3246.557 | -.811 | .00400 |
| 4. | 3259.242 | -1.181 | .21E-05 | 0.00 | .98E-07 | -128.394 | .29E-05 | 89.583 | .604E+04 | -164.016 | 3246.283 | -1.073 | .00398 |
| 5. | 3258.807 | -1.460 | .21E-05 | 0.00 | .12E-06 | -128.393 | .29E-05 | 89.556 | .602E+04 | -164.081 | 3245.935 | -1.328 | .00395 |
| 6. | 3258.283 | -1.728 | .21E-05 | 0.00 | .14E-06 | -128.392 | .29E-05 | 89.523 | .599E+04 | -164.160 | 3245.514 | -1.574 | .00392 |
| 7. | 3257.673 | -1.984 | .21E-05 | 0.00 | .17E-06 | -128.388 | .29E-05 | 89.485 | .596E+04 | -164.255 | 3245.023 | -1.811 | .00388 |
| 8. | 3256.984 | -2.227 | .21E-05 | 0.00 | .19E-06 | -128.381 | .29E-05 | 89.442 | .593E+04 | -164.365 | 3244.466 | -2.037 | .00384 |
| 9. | 3256.219 | -2.455 | .21E-05 | 0.00 | .21E-06 | -128.371 | .29E-05 | 89.394 | .589E+04 | -164.490 | 3243.848 | -2.250 | .00380 |
| 10. | 3255.384 | -2.668 | .21E-05 | 0.00 | .23E-06 | -128.357 | .29E-05 | 89.342 | .586E+04 | -164.632 | 3243.170 | -2.451 | .00375 |
| 11. | 3254.485 | -2.865 | .21E-05 | 0.00 | .25E-06 | -128.338 | .29E-05 | 89.285 | .581E+04 | -164.790 | 3242.438 | -2.638 | .00370 |
| 12. | 3253.527 | -3.044 | .21E-05 | 0.00 | .27E-06 | -128.312 | .29E-05 | 89.226 | .577E+04 | -164.965 | 3241.656 | -2.810 | .00365 |
| 13. | 3252.517 | -3.207 | .21E-05 | 0.00 | .28E-06 | -128.279 | .29E-05 | 89.163 | .572E+04 | -165.157 | 3240.828 | -2.968 | .00359 |
| 14. | 3251.461 | -3.352 | .21E-05 | 0.00 | .30E-06 | -128.237 | .29E-05 | 89.097 | .568E+04 | -165.366 | 3239.959 | -3.111 | .00354 |
| 15. | 3250.363 | -3.480 | .21E-05 | 0.00 | .31E-06 | -128.186 | .29E-05 | 89.028 | .563E+04 | -165.592 | 3239.052 | -3.239 | .00348 |
| 16. | 3249.230 | -3.591 | .21E-05 | 0.00 | .32E-06 | -128.125 | .29E-05 | 88.958 | .558E+04 | -165.836 | 3238.113 | -3.352 | .00342 |
| 17. | 3248.067 | -3.685 | .21E-05 | 0.00 | .34E-06 | -128.052 | .29E-05 | 88.886 | .553E+04 | -166.097 | 3237.144 | -3.450 | .00336 |
| 18. | 3246.879 | -3.763 | .21E-05 | 0.00 | .35E-06 | -127.965 | .29E-05 | 88.812 | .548E+04 | -166.375 | 3236.150 | -3.532 | .00330 |
| 19. | 3245.671 | -3.825 | .21E-05 | 0.00 | .36E-06 | -127.866 | .29E-05 | 88.738 | .543E+04 | -166.671 | 3235.135 | -3.601 | .00325 |
| 20. | 3244.447 | -3.871 | .20E-05 | 0.00 | .37E-06 | -127.750 | .29E-05 | 88.662 | .538E+04 | -166.984 | 3234.102 | -3.654 | .00319 |
| 21. | 3243.212 | -3.902 | .20E-05 | 0.00 | .38E-06 | -127.619 | .29E-05 | 88.586 | .533E+04 | -167.314 | 3233.054 | -3.694 | .00313 |
| 22. | 3241.969 | -3.918 | .20E-05 | 0.00 | .39E-06 | -127.470 | .29E-05 | 88.510 | .528E+04 | -167.660 | 3231.994 | -3.720 | .00308 |
| 23. | 3240.721 | -3.921 | .20E-05 | 0.00 | .39E-06 | -127.303 | .29E-05 | 88.434 | .523E+04 | -168.021 | 3230.925 | -3.733 | .00302 |
| 24. | 3239.473 | -3.910 | .20E-05 | 0.00 | .40E-06 | -127.116 | .29E-05 | 88.359 | .518E+04 | -168.397 | 3229.850 | -3.733 | .00297 |
| 25. | 3238.225 | -3.886 | .20E-05 | 0.00 | .40E-06 | -126.907 | .29E-05 | 88.283 | .514E+04 | -168.788 | 3228.770 | -3.721 | .00292 |
| 26. | 3236.981 | -3.851 | .20E-05 | 0.00 | .41E-06 | -126.677 | .29E-05 | 88.209 | .510E+04 | -169.191 | 3227.688 | -3.696 | .00287 |
| 27. | 3235.743 | -3.803 | .20E-05 | 0.00 | .41E-06 | -126.423 | .29E-05 | 88.136 | .505E+04 | -169.606 | 3226.604 | -3.660 | .00282 |
| 28. | 3234.513 | -3.744 | .20E-05 | 0.00 | .41E-06 | -126.143 | .29E-05 | 88.064 | .501E+04 | -170.032 | 3225.522 | -3.614 | .00278 |
| 29. | 3233.290 | -3.675 | .20E-05 | 0.00 | .42E-06 | -125.838 | .29E-05 | 87.993 | .497E+04 | -170.467 | 3224.441 | -3.556 | .00274 |
| 30. | 3232.078 | -3.595 | .20E-05 | 0.00 | .42E-06 | -125.506 | .29E-05 | 87.925 | .494E+04 | -170.910 | 3223.362 | -3.489 | .00270 |
| 31. | 3230.876 | -3.506 | .20E-05 | 0.00 | .42E-06 | -125.144 | .29E-05 | 87.858 | .490E+04 | -171.359 | 3222.287 | -3.412 | .00266 |
| 32. | 3229.685 | -3.407 | .20E-05 | 0.00 | .42E-06 | -124.752 | .29E-05 | 87.792 | .487E+04 | -171.814 | 3221.215 | -3.326 | .00262 |
| 33. | 3228.505 | -3.300 | .20E-05 | 0.00 | .42E-06 | -124.328 | .29E-05 | 87.730 | .484E+04 | -172.272 | 3220.148 | -3.231 | .00259 |
| 34. | 3227.337 | -3.185 | .20E-05 | 0.00 | .42E-06 | -123.872 | .29E-05 | 87.669 | .481E+04 | -172.733 | 3219.085 | -3.127 | .00256 |
| 35. | 3226.179 | -3.062 | .20E-05 | 0.00 | .41E-06 | -123.380 | .29E-05 | 87.612 | .478E+04 | -173.193 | 3218.025 | -3.016 | .00253 |
| 36. | 3225.032 | -2.931 | .20E-05 | 0.00 | .41E-06 | -122.852 | .29E-05 | 87.557 | .475E+04 | -173.653 | 3216.970 | -2.898 | .00250 |
| 37. | 3223.894 | -2.794 | .20E-05 | 0.00 | .41E-06 | -122.287 | .29E-05 | 87.505 | .473E+04 | -174.110 | 3215.918 | -2.772 | .00247 |
| 38. | 3222.766 | -2.650 | .20E-05 | 0.00 | .41E-06 | -121.682 | .29E-05 | 87.456 | .471E+04 | -174.562 | 3214.870 | -2.640 | .00245 |
| 39. | 3221.647 | -2.499 | .20E-05 | 0.00 | .40E-06 | -121.037 | .29E-05 | 87.410 | .469E+04 | -175.010 | 3213.824 | -2.501 | .00243 |
| 40. | 3220.535 | -2.344 | .20E-05 | 0.00 | .40E-06 | -120.349 | .29E-05 | 87.368 | .467E+04 | -175.450 | 3212.780 | -2.357 | .00241 |
| 41. | 3219.429 | -2.182 | .20E-05 | 0.00 | .39E-06 | -119.617 | .29E-05 | 87.330 | .465E+04 | -175.882 | 3211.737 | -2.208 | .00239 |
| 42. | 3218.330 | -2.016 | .20E-05 | 0.00 | .39E-06 | -118.840 | .29E-05 | 87.296 | .464E+04 | -176.305 | 3210.696 | -2.053 | .00237 |
| 43. | 3217.234 | -1.846 | .20E-05 | 0.00 | .38E-06 | -118.016 | .29E-05 | 87.266 | .462E+04 | -176.718 | 3209.654 | -1.894 | .00236 |
| 44. | 3216.142 | -1.671 | .20E-05 | 0.00 | .38E-06 | -117.143 | .29E-05 | 87.240 | .461E+04 | -177.120 | 3208.611 | -1.731 | .00234 |
| 45. | 3215.052 | -1.493 | .20E-05 | 0.00 | .37E-06 | -116.220 | .29E-05 | 87.218 | .460E+04 | -177.510 | 3207.567 | -1.565 | .00233 |
| 46. | 3213.964 | -1.312 | .20E-05 | 0.00 | .37E-06 | -115.246 | .29E-05 | 87.201 | .459E+04 | -177.887 | 3206.521 | -1.395 | .00232 |
| 47. | 3212.876 | -1.128 | .20E-05 | 0.00 | .36E-06 | -114.219 | .29E-05 | 87.189 | .458E+04 | -178.250 | 3205.473 | -1.222 | .00230 |
| 48. | 3211.788 | -.942 | .20E-05 | 0.00 | .35E-06 | -113.138 | .29E-05 | 87.181 | .457E+04 | -178.600 | 3204.421 | -1.047 | .00229 |
| 49. | 3210.699 | -.753 | .20E-05 | 0.00 | .35E-06 | -112.002 | .29E-05 | 87.179 | .456E+04 | -178.936 | 3203.366 | -.870 | .00228 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3209.608 | -.564 | .20E-05 | 0.00 | .34E-06 | -110.810 | .29E-05 | 87.181 | .455E+04 | -179.257 | 3202.307 | -.692 | .00227 |
| 51. | 3208.515 | -.373 | .20E-05 | 0.00 | .33E-06 | -109.562 | .29E-05 | 87.189 | .454E+04 | -179.564 | 3201.245 | -.513 | .00227 |
| 52. | 3207.419 | -.182 | .20E-05 | 0.00 | .32E-06 | -108.255 | .29E-05 | 87.201 | .454E+04 | -179.855 | 3200.178 | -.333 | .00226 |
| 53. | 3206.321 | .009 | .20E-05 | 0.00 | .32E-06 | -106.891 | .29E-05 | 87.219 | .453E+04 | 179.868 | 3199.108 | -.152 | .00225 |
| 54. | 3205.220 | .200 | .20E-05 | 0.00 | .31E-06 | -105.467 | .29E-05 | 87.242 | .452E+04 | 179.607 | 3198.034 | .028 | .00224 |
| 55. | 3204.117 | .390 | .20E-05 | 0.00 | .30E-06 | -103.985 | .29E-05 | 87.269 | .452E+04 | 179.362 | 3196.958 | .207 | .00223 |
| 56. | 3203.012 | .579 | .20E-05 | 0.00 | .30E-06 | -102.443 | .29E-05 | 87.302 | .451E+04 | 179.131 | 3195.879 | .385 | .00223 |
| 57. | 3201.907 | .766 | .20E-05 | 0.00 | .29E-06 | -100.842 | .29E-05 | 87.340 | .450E+04 | 178.916 | 3194.799 | .562 | .00222 |
| 58. | 3200.801 | .952 | .20E-05 | 0.00 | .28E-06 | -99.182 | .29E-05 | 87.382 | .450E+04 | 178.717 | 3193.719 | .737 | .00221 |
| 59. | 3199.696 | 1.134 | .20E-05 | 0.00 | .27E-06 | -97.462 | .29E-05 | 87.429 | .449E+04 | 178.533 | 3192.640 | .910 | .00221 |
| 60. | 3198.594 | 1.314 | .20E-05 | 0.00 | .27E-06 | -95.683 | .29E-05 | 87.480 | .448E+04 | 178.365 | 3191.563 | 1.080 | .00220 |
| 61. | 3197.495 | 1.491 | .20E-05 | 0.00 | .26E-06 | -93.845 | .29E-05 | 87.536 | .447E+04 | 178.212 | 3190.489 | 1.247 | .00219 |
| 62. | 3196.402 | 1.664 | .20E-05 | 0.00 | .25E-06 | -91.946 | .29E-05 | 87.595 | .447E+04 | 178.075 | 3189.422 | 1.411 | .00218 |
| 63. | 3195.316 | 1.833 | .20E-05 | 0.00 | .25E-06 | -89.988 | .29E-05 | 87.659 | .446E+04 | 177.953 | 3188.362 | 1.571 | .00218 |
| 64. | 3194.239 | 1.998 | .20E-05 | 0.00 | .24E-06 | -87.969 | .29E-05 | 87.726 | .445E+04 | 177.847 | 3187.311 | 1.727 | .00217 |
| 65. | 3193.174 | 2.158 | .20E-05 | 0.00 | .23E-06 | -85.889 | .29E-05 | 87.796 | .444E+04 | 177.757 | 3186.272 | 1.879 | .00216 |
| 66. | 3192.123 | 2.313 | .20E-05 | 0.00 | .23E-06 | -83.745 | .29E-05 | 87.869 | .444E+04 | 177.682 | 3185.247 | 2.027 | .00215 |
| 67. | 3191.088 | 2.464 | .20E-05 | 0.00 | .22E-06 | -81.537 | .29E-05 | 87.945 | .443E+04 | 177.624 | 3184.238 | 2.169 | .00215 |
| 68. | 3190.072 | 2.609 | .20E-05 | 0.00 | .21E-06 | -79.260 | .29E-05 | 88.024 | .442E+04 | 177.581 | 3183.247 | 2.307 | .00214 |
| 69. | 3189.077 | 2.748 | .20E-05 | 0.00 | .21E-06 | -76.913 | .29E-05 | 88.105 | .441E+04 | 177.554 | 3182.278 | 2.440 | .00213 |
| 70. | 3188.106 | 2.882 | .20E-05 | 0.00 | .20E-06 | -74.490 | .29E-05 | 88.187 | .440E+04 | 177.542 | 3181.333 | 2.568 | .00212 |
| 71. | 3187.161 | 3.010 | .20E-05 | 0.00 | .19E-06 | -71.987 | .29E-05 | 88.272 | .440E+04 | 177.547 | 3180.413 | 2.690 | .00212 |
| 72. | 3186.245 | 3.132 | .20E-05 | 0.00 | .19E-06 | -69.398 | .29E-05 | 88.358 | .439E+04 | 177.566 | 3179.523 | 2.806 | .00211 |
| 73. | 3185.362 | 3.248 | .20E-05 | 0.00 | .18E-06 | -66.717 | .29E-05 | 88.446 | .438E+04 | 177.601 | 3178.663 | 2.917 | .00210 |
| 74. | 3184.512 | 3.358 | .20E-05 | 0.00 | .18E-06 | -63.934 | .29E-05 | 88.534 | .437E+04 | 177.651 | 3177.837 | 3.021 | .00210 |
| 75. | 3183.700 | 3.461 | .20E-05 | 0.00 | .17E-06 | -61.042 | .29E-05 | 88.624 | .437E+04 | 177.716 | 3177.048 | 3.120 | .00209 |
| 76. | 3182.927 | 3.558 | .20E-05 | 0.00 | .16E-06 | -58.032 | .29E-05 | 88.714 | .436E+04 | 177.795 | 3176.297 | 3.213 | .00208 |
| 77. | 3182.196 | 3.648 | .20E-05 | 0.00 | .16E-06 | -54.892 | .29E-05 | 88.805 | .435E+04 | 177.888 | 3175.587 | 3.299 | .00208 |
| 78. | 3181.509 | 3.732 | .20E-05 | 0.00 | .15E-06 | -51.614 | .29E-05 | 88.896 | .435E+04 | 177.994 | 3174.920 | 3.379 | .00207 |
| 79. | 3180.868 | 3.809 | .20E-05 | 0.00 | .15E-06 | -48.186 | .29E-05 | 88.988 | .434E+04 | 178.113 | 3174.298 | 3.453 | .00207 |
| 80. | 3180.276 | 3.880 | .20E-05 | 0.00 | .14E-06 | -44.598 | .29E-05 | 89.080 | .433E+04 | 178.243 | 3173.723 | 3.521 | .00206 |
| 81. | 3179.734 | 3.943 | .20E-05 | 0.00 | .14E-06 | -40.844 | .29E-05 | 89.172 | .433E+04 | 178.385 | 3173.197 | 3.582 | .00206 |
| 82. | 3179.245 | 4.001 | .20E-05 | 0.00 | .14E-06 | -36.916 | .29E-05 | 89.264 | .432E+04 | 178.537 | 3172.722 | 3.637 | .00205 |
| 83. | 3178.808 | 4.051 | .20E-05 | 0.00 | .13E-06 | -32.811 | .29E-05 | 89.356 | .432E+04 | 178.699 | 3172.299 | 3.686 | .00205 |
| 84. | 3178.428 | 4.095 | .20E-05 | 0.00 | .13E-06 | -28.531 | .29E-05 | 89.448 | .431E+04 | 178.869 | 3171.930 | 3.728 | .00204 |
| 85. | 3178.103 | 4.132 | .20E-05 | 0.00 | .12E-06 | -24.083 | .29E-05 | 89.540 | .431E+04 | 179.046 | 3171.615 | 3.764 | .00204 |
| 86. | 3177.836 | 4.162 | .20E-05 | 0.00 | .12E-06 | -19.479 | .29E-05 | 89.632 | .431E+04 | 179.229 | 3171.356 | 3.793 | .00204 |
| 87. | 3177.627 | 4.186 | .20E-05 | 0.00 | .12E-06 | -14.739 | .29E-05 | 89.724 | .431E+04 | 179.417 | 3171.154 | 3.815 | .00204 |
| 88. | 3177.478 | 4.203 | .20E-05 | 0.00 | .12E-06 | -9.891 | .29E-05 | 89.816 | .430E+04 | 179.610 | 3171.009 | 3.832 | .00204 |
| 89. | 3177.388 | 4.213 | .20E-05 | 0.00 | .12E-06 | -4.965 | .29E-05 | 89.908 | .430E+04 | 179.804 | 3170.922 | 3.841 | .00204 |
| 90. | 3177.358 | 4.216 | .20E-05 | 0.00 | .12E-06 | 0.000 | .29E-05 | 90.000 | .430E+04 | 180.000 | 3170.893 | 3.845 | .00203 |
| 91. | 3177.388 | 4.213 | .20E-05 | 0.00 | .12E-06 | 4.965 | .29E-05 | 90.092 | .430E+04 | -179.804 | 3170.922 | 3.841 | .00204 |
| 92. | 3177.478 | 4.203 | .20E-05 | 0.00 | .12E-06 | 9.891 | .29E-05 | 90.184 | .430E+04 | -179.610 | 3171.009 | 3.832 | .00204 |
| 93. | 3177.627 | 4.186 | .20E-05 | 0.00 | .12E-06 | 14.739 | .29E-05 | 90.276 | .431E+04 | -179.417 | 3171.154 | 3.815 | .00204 |
| 94. | 3177.836 | 4.162 | .20E-05 | 0.00 | .12E-06 | 19.479 | .29E-05 | 90.368 | .431E+04 | -179.229 | 3171.356 | 3.793 | .00204 |
| 95. | 3178.103 | 4.132 | .20E-05 | 0.00 | .12E-06 | 24.083 | .29E-05 | 90.460 | .431E+04 | -179.046 | 3171.615 | 3.764 | .00204 |
| 96. | 3178.428 | 4.095 | .20E-05 | 0.00 | .13E-06 | 28.531 | .29E-05 | 90.552 | .431E+04 | -178.869 | 3171.930 | 3.728 | .00204 |
| 97. | 3178.808 | 4.051 | .20E-05 | 0.00 | .13E-06 | 32.811 | .29E-05 | 90.644 | .432E+04 | -178.699 | 3172.299 | 3.686 | .00205 |
| 98. | 3179.245 | 4.001 | .20E-05 | 0.00 | .14E-06 | 36.916 | .29E-05 | 90.736 | .432E+04 | -178.537 | 3172.722 | 3.637 | .00205 |
| 99. | 3179.734 | 3.943 | .20E-05 | 0.00 | .14E-06 | 40.844 | .29E-05 | 90.828 | .433E+04 | -178.385 | 3173.197 | 3.582 | .00206 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3180.276 | 3.880 | .20E-05 | 0.00 | .14E-06 | 44.598 | .29E-05 | 90.920 | .433E+04 | -178.243 | 3173.723 | 3.521 | .00206 |
| 101. | 3180.868 | 3.809 | .20E-05 | 0.00 | .15E-06 | 48.186 | .29E-05 | 91.012 | .434E+04 | -178.113 | 3174.298 | 3.453 | .00207 |
| 102. | 3181.509 | 3.732 | .20E-05 | 0.00 | .15E-06 | 51.614 | .29E-05 | 91.104 | .435E+04 | -177.994 | 3174.920 | 3.379 | .00207 |
| 103. | 3182.196 | 3.648 | .20E-05 | 0.00 | .16E-06 | 54.892 | .29E-05 | 91.195 | .435E+04 | -177.888 | 3175.587 | 3.299 | .00208 |
| 104. | 3182.927 | 3.558 | .20E-05 | 0.00 | .16E-06 | 58.032 | .29E-05 | 91.286 | .436E+04 | -177.795 | 3176.297 | 3.213 | .00208 |
| 105. | 3183.700 | 3.461 | .20E-05 | 0.00 | .17E-06 | 61.042 | .29E-05 | 91.376 | .437E+04 | -177.716 | 3177.048 | 3.120 | .00209 |
| 106. | 3184.512 | 3.358 | .20E-05 | 0.00 | .18E-06 | 63.934 | .29E-05 | 91.466 | .437E+04 | -177.651 | 3177.837 | 3.021 | .00210 |
| 107. | 3185.362 | 3.248 | .20E-05 | 0.00 | .18E-06 | 66.717 | .29E-05 | 91.554 | .438E+04 | -177.601 | 3178.663 | 2.917 | .00210 |
| 108. | 3186.245 | 3.132 | .20E-05 | 0.00 | .19E-06 | 69.398 | .29E-05 | 91.642 | .439E+04 | -177.566 | 3179.523 | 2.806 | .00211 |
| 109. | 3187.161 | 3.010 | .20E-05 | 0.00 | .19E-06 | 71.987 | .29E-05 | 91.728 | .440E+04 | -177.547 | 3180.413 | 2.690 | .00212 |
| 110. | 3188.106 | 2.882 | .20E-05 | 0.00 | .20E-06 | 74.490 | .29E-05 | 91.813 | .440E+04 | -177.542 | 3181.333 | 2.568 | .00212 |
| 111. | 3189.077 | 2.748 | .20E-05 | 0.00 | .21E-06 | 76.913 | .29E-05 | 91.895 | .441E+04 | -177.554 | 3182.278 | 2.440 | .00213 |
| 112. | 3190.072 | 2.609 | .20E-05 | 0.00 | .21E-06 | 79.260 | .29E-05 | 91.976 | .442E+04 | -177.581 | 3183.247 | 2.307 | .00214 |
| 113. | 3191.088 | 2.464 | .20E-05 | 0.00 | .22E-06 | 81.537 | .29E-05 | 92.055 | .443E+04 | -177.624 | 3184.238 | 2.169 | .00215 |
| 114. | 3192.123 | 2.313 | .20E-05 | 0.00 | .23E-06 | 83.745 | .29E-05 | 92.131 | .444E+04 | -177.682 | 3185.247 | 2.027 | .00215 |
| 115. | 3193.174 | 2.158 | .20E-05 | 0.00 | .23E-06 | 85.889 | .29E-05 | 92.204 | .444E+04 | -177.757 | 3186.272 | 1.879 | .00216 |
| 116. | 3194.239 | 1.998 | .20E-05 | 0.00 | .24E-06 | 87.969 | .29E-05 | 92.274 | .445E+04 | -177.847 | 3187.311 | 1.727 | .00217 |
| 117. | 3195.316 | 1.833 | .20E-05 | 0.00 | .25E-06 | 89.988 | .29E-05 | 92.341 | .446E+04 | -177.953 | 3188.362 | 1.571 | .00218 |
| 118. | 3196.402 | 1.664 | .20E-05 | 0.00 | .25E-06 | 91.946 | .29E-05 | 92.405 | .447E+04 | -178.075 | 3189.422 | 1.411 | .00218 |
| 119. | 3197.495 | 1.491 | .20E-05 | 0.00 | .26E-06 | 93.845 | .29E-05 | 92.464 | .447E+04 | -178.212 | 3190.489 | 1.247 | .00219 |
| 120. | 3198.594 | 1.314 | .20E-05 | 0.00 | .27E-06 | 95.683 | .29E-05 | 92.520 | .448E+04 | -178.365 | 3191.563 | 1.080 | .00220 |
| 121. | 3199.696 | 1.134 | .20E-05 | 0.00 | .27E-06 | 97.462 | .29E-05 | 92.571 | .449E+04 | -178.533 | 3192.640 | .910 | .00221 |
| 122. | 3200.801 | .952 | .20E-05 | 0.00 | .28E-06 | 99.182 | .29E-05 | 92.618 | .450E+04 | -178.717 | 3193.719 | .737 | .00221 |
| 123. | 3201.907 | .766 | .20E-05 | 0.00 | .29E-06 | 100.842 | .29E-05 | 92.660 | .450E+04 | -178.916 | 3194.799 | .562 | .00222 |
| 124. | 3203.012 | .579 | .20E-05 | 0.00 | .30E-06 | 102.443 | .29E-05 | 92.698 | .451E+04 | -179.131 | 3195.879 | .385 | .00223 |
| 125. | 3204.117 | .390 | .20E-05 | 0.00 | .30E-06 | 103.985 | .29E-05 | 92.731 | .452E+04 | -179.362 | 3196.958 | .207 | .00223 |
| 126. | 3205.220 | .200 | .20E-05 | 0.00 | .31E-06 | 105.467 | .29E-05 | 92.758 | .452E+04 | -179.607 | 3198.034 | .028 | .00224 |
| 127. | 3206.321 | .009 | .20E-05 | 0.00 | .32E-06 | 106.891 | .29E-05 | 92.781 | .453E+04 | -179.868 | 3199.108 | -.152 | .00225 |
| 128. | 3207.419 | -.182 | .20E-05 | 0.00 | .32E-06 | 108.255 | .29E-05 | 92.799 | .454E+04 | 179.855 | 3200.178 | -.333 | .00226 |
| 129. | 3208.515 | -.373 | .20E-05 | 0.00 | .33E-06 | 109.562 | .29E-05 | 92.811 | .454E+04 | 179.564 | 3201.245 | -.513 | .00227 |
| 130. | 3209.608 | -.564 | .20E-05 | 0.00 | .34E-06 | 110.810 | .29E-05 | 92.819 | .455E+04 | 179.257 | 3202.307 | -.692 | .00227 |
| 131. | 3210.699 | -.753 | .20E-05 | 0.00 | .35E-06 | 112.002 | .29E-05 | 92.821 | .456E+04 | 178.936 | 3203.366 | -.870 | .00228 |
| 132. | 3211.788 | -.942 | .20E-05 | 0.00 | .35E-06 | 113.136 | .29E-05 | 92.819 | .457E+04 | 178.600 | 3204.421 | -1.047 | .00229 |
| 133. | 3212.876 | -1.128 | .20E-05 | 0.00 | .36E-06 | 114.219 | .29E-05 | 92.811 | .458E+04 | 178.250 | 3205.473 | -1.222 | .00230 |
| 134. | 3213.964 | -1.312 | .20E-05 | 0.00 | .37E-06 | 115.246 | .29E-05 | 92.799 | .459E+04 | 177.887 | 3206.521 | -1.395 | .00232 |
| 135. | 3215.052 | -1.493 | .20E-05 | 0.00 | .37E-06 | 116.220 | .29E-05 | 92.782 | .460E+04 | 177.510 | 3207.567 | -1.565 | .00233 |
| 136. | 3216.142 | -1.671 | .20E-05 | 0.00 | .38E-06 | 117.143 | .29E-05 | 92.760 | .461E+04 | 177.120 | 3208.611 | -1.731 | .00234 |
| 137. | 3217.234 | -1.846 | .20E-05 | 0.00 | .38E-06 | 118.016 | .29E-05 | 92.734 | .462E+04 | 176.718 | 3209.654 | -1.894 | .00236 |
| 138. | 3218.330 | -2.016 | .20E-05 | 0.00 | .39E-06 | 118.840 | .29E-05 | 92.704 | .464E+04 | 176.305 | 3210.696 | -2.053 | .00237 |
| 139. | 3219.429 | -2.182 | .20E-05 | 0.00 | .39E-06 | 119.617 | .29E-05 | 92.670 | .465E+04 | 175.882 | 3211.737 | -2.208 | .00239 |
| 140. | 3220.535 | -2.344 | .20E-05 | 0.00 | .40E-06 | 120.349 | .29E-05 | 92.632 | .467E+04 | 175.450 | 3212.780 | -2.357 | .00241 |
| 141. | 3221.647 | -2.499 | .20E-05 | 0.00 | .40E-06 | 121.037 | .29E-05 | 92.590 | .469E+04 | 175.010 | 3213.824 | -2.501 | .00243 |
| 142. | 3222.766 | -2.650 | .20E-05 | 0.00 | .41E-06 | 121.682 | .29E-05 | 92.544 | .471E+04 | 174.562 | 3214.870 | -2.640 | .00245 |
| 143. | 3223.894 | -2.794 | .20E-05 | 0.00 | .41E-06 | 122.287 | .29E-05 | 92.495 | .473E+04 | 174.110 | 3215.918 | -2.772 | .00247 |
| 144. | 3225.032 | -2.931 | .20E-05 | 0.00 | .41E-06 | 122.852 | .29E-05 | 92.443 | .475E+04 | 173.653 | 3216.970 | -2.898 | .00250 |
| 145. | 3226.179 | -3.062 | .20E-05 | 0.00 | .41E-06 | 123.380 | .29E-05 | 92.388 | .478E+04 | 173.193 | 3218.025 | -3.016 | .00253 |
| 146. | 3227.337 | -3.185 | .20E-05 | 0.00 | .42E-06 | 123.872 | .29E-05 | 92.331 | .481E+04 | 172.733 | 3219.085 | -3.127 | .00256 |
| 147. | 3228.505 | -3.300 | .20E-05 | 0.00 | .42E-06 | 124.328 | .29E-05 | 92.270 | .484E+04 | 172.272 | 3220.148 | -3.231 | .00259 |
| 148. | 3229.685 | -3.407 | .20E-05 | 0.00 | .42E-06 | 124.752 | .29E-05 | 92.208 | .487E+04 | 171.814 | 3221.215 | -3.326 | .00262 |
| 149. | 3230.876 | -3.506 | .20E-05 | 0.00 | .42E-06 | 125.144 | .29E-05 | 92.142 | .490E+04 | 171.359 | 3222.287 | -3.412 | .00266 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 78.5 90 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3232.078 | -3.595 | .20E-05 | 0.00 | .42E-06 | 125.506 | .29E-05 | 92.075 | .494E+04 | 170.910 | 3223.362 | -3.489 | .00270 |
| 151. | 3233.290 | -3.675 | .20E-05 | 0.00 | .42E-06 | 125.838 | .29E-05 | 92.007 | .497E+04 | 170.467 | 3224.441 | -3.556 | .00274 |
| 152. | 3234.513 | -3.744 | .20E-05 | 0.00 | .41E-06 | 126.143 | .29E-05 | 91.936 | .501E+04 | 170.032 | 3225.522 | -3.614 | .00278 |
| 153. | 3235.743 | -3.803 | .20E-05 | 0.00 | .41E-06 | 126.423 | .29E-05 | 91.864 | .505E+04 | 169.606 | 3226.604 | -3.660 | .00282 |
| 154. | 3236.981 | -3.851 | .20E-05 | 0.00 | .41E-06 | 126.677 | .29E-05 | 91.791 | .510E+04 | 169.191 | 3227.688 | -3.696 | .00287 |
| 155. | 3238.225 | -3.886 | .20E-05 | 0.00 | .40E-06 | 126.907 | .29E-05 | 91.717 | .514E+04 | 168.788 | 3228.770 | -3.721 | .00292 |
| 156. | 3239.473 | -3.910 | .20E-05 | 0.00 | .40E-06 | 127.116 | .29E-05 | 91.641 | .518E+04 | 168.397 | 3229.850 | -3.733 | .00297 |
| 157. | 3240.721 | -3.921 | .20E-05 | 0.00 | .39E-06 | 127.303 | .29E-05 | 91.566 | .523E+04 | 168.021 | 3230.925 | -3.733 | .00302 |
| 158. | 3241.969 | -3.918 | .20E-05 | 0.00 | .39E-06 | 127.470 | .29E-05 | 91.490 | .528E+04 | 167.660 | 3231.994 | -3.720 | .00308 |
| 159. | 3243.212 | -3.902 | .20E-05 | 0.00 | .38E-06 | 127.619 | .29E-05 | 91.414 | .533E+04 | 167.314 | 3233.054 | -3.694 | .00313 |
| 160. | 3244.447 | -3.871 | .20E-05 | 0.00 | .37E-06 | 127.750 | .29E-05 | 91.338 | .538E+04 | 166.984 | 3234.102 | -3.654 | .00319 |
| 161. | 3245.671 | -3.825 | .21E-05 | 0.00 | .36E-06 | 127.866 | .29E-05 | 91.262 | .543E+04 | 166.671 | 3235.135 | -3.601 | .00325 |
| 162. | 3246.879 | -3.763 | .21E-05 | 0.00 | .35E-06 | 127.965 | .29E-05 | 91.188 | .548E+04 | 166.375 | 3236.150 | -3.532 | .00330 |
| 163. | 3248.067 | -3.685 | .21E-05 | 0.00 | .34E-06 | 128.052 | .29E-05 | 91.114 | .553E+04 | 166.097 | 3237.144 | -3.450 | .00336 |
| 164. | 3249.230 | -3.591 | .21E-05 | 0.00 | .32E-06 | 128.125 | .29E-05 | 91.042 | .558E+04 | 165.836 | 3238.113 | -3.352 | .00342 |
| 165. | 3250.363 | -3.480 | .21E-05 | 0.00 | .31E-06 | 128.186 | .29E-05 | 90.972 | .563E+04 | 165.592 | 3239.052 | -3.239 | .00348 |
| 166. | 3251.461 | -3.352 | .21E-05 | 0.00 | .30E-06 | 128.237 | .29E-05 | 90.903 | .568E+04 | 165.366 | 3239.959 | -3.111 | .00354 |
| 167. | 3252.517 | -3.207 | .21E-05 | 0.00 | .28E-06 | 128.279 | .29E-05 | 90.837 | .572E+04 | 165.157 | 3240.828 | -2.968 | .00359 |
| 168. | 3253.527 | -3.044 | .21E-05 | 0.00 | .27E-06 | 128.312 | .29E-05 | 90.774 | .577E+04 | 164.965 | 3241.656 | -2.810 | .00365 |
| 169. | 3254.485 | -2.865 | .21E-05 | 0.00 | .25E-06 | 128.338 | .29E-05 | 90.715 | .581E+04 | 164.790 | 3242.438 | -2.638 | .00370 |
| 170. | 3255.384 | -2.666 | .21E-05 | 0.00 | .23E-06 | 128.357 | .29E-05 | 90.658 | .586E+04 | 164.632 | 3243.170 | -2.451 | .00375 |
| 171. | 3256.219 | -2.455 | .21E-05 | 0.00 | .21E-06 | 128.371 | .29E-05 | 90.606 | .589E+04 | 164.490 | 3243.848 | -2.250 | .00380 |
| 172. | 3256.984 | -2.227 | .21E-05 | 0.00 | .19E-06 | 128.381 | .29E-05 | 90.558 | .593E+04 | 164.365 | 3244.466 | -2.037 | .00384 |
| 173. | 3257.673 | -1.984 | .21E-05 | 0.00 | .17E-06 | 128.388 | .29E-05 | 90.515 | .596E+04 | 164.255 | 3245.023 | -1.811 | .00388 |
| 174. | 3258.283 | -1.728 | .21E-05 | 0.00 | .14E-06 | 128.392 | .29E-05 | 90.477 | .599E+04 | 164.160 | 3245.514 | -1.574 | .00392 |
| 175. | 3258.807 | -1.460 | .21E-05 | 0.00 | .12E-06 | 128.393 | .29E-05 | 90.444 | .602E+04 | 164.081 | 3245.935 | -1.328 | .00395 |
| 176. | 3259.242 | -1.181 | .21E-05 | 0.00 | .98E-07 | 128.394 | .29E-05 | 90.417 | .604E+04 | 164.016 | 3246.283 | -1.073 | .00398 |
| 177. | 3259.584 | -.893 | .21E-05 | 0.00 | .74E-07 | 128.394 | .29E-05 | 90.396 | .605E+04 | 163.966 | 3246.557 | -.811 | .00400 |
| 178. | 3259.830 | -.599 | .21E-05 | 0.00 | .49E-07 | 128.394 | .29E-05 | 90.380 | .607E+04 | 163.930 | 3246.755 | -.543 | .00401 |
| 179. | 3259.979 | -.301 | .21E-05 | 0.00 | .25E-07 | 128.393 | .29E-05 | 90.371 | .607E+04 | 163.909 | 3246.873 | -.273 | .00402 |
| 180. | 3260.028 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.368 | .608E+04 | 163.902 | 3246.913 | 0.000 | .00402 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 90 32 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3197.021 | .938 | .21E-05 | 0.00 | .54E-06 | -137.799 | .29E-05 | 97.338 | .381E+04 | 124.531 | 3191.349 | .725 | .00177 |
| 1. | 3196.486 | 1.039 | .21E-05 | 0.00 | .54E-06 | -137.865 | .29E-05 | 97.226 | .376E+04 | 125.567 | 3190.961 | .828 | .00173 |
| 2. | 3195.947 | 1.135 | .21E-05 | 0.00 | .53E-06 | -137.965 | .29E-05 | 97.116 | .371E+04 | 126.608 | 3190.566 | .927 | .00168 |
| 3. | 3195.401 | 1.225 | .20E-05 | 0.00 | .52E-06 | -138.102 | .29E-05 | 97.008 | .366E+04 | 127.656 | 3190.163 | 1.020 | .00164 |
| 4. | 3194.847 | 1.309 | .20E-05 | 0.00 | .51E-06 | -138.280 | .29E-05 | 96.902 | .361E+04 | 128.711 | 3189.751 | 1.109 | .00160 |
| 5. | 3194.286 | 1.386 | .20E-05 | 0.00 | .50E-06 | -138.501 | .29E-05 | 96.796 | .356E+04 | 129.772 | 3189.329 | 1.192 | .00155 |
| 6. | 3193.716 | 1.457 | .20E-05 | 0.00 | .50E-06 | -138.769 | .29E-05 | 96.693 | .351E+04 | 130.839 | 3188.895 | 1.268 | .00151 |
| 7. | 3193.135 | 1.522 | .20E-05 | 0.00 | .49E-06 | -139.087 | .29E-05 | 96.590 | .346E+04 | 131.914 | 3188.450 | 1.339 | .00147 |
| 8. | 3192.544 | 1.579 | .20E-05 | 0.00 | .48E-06 | -139.458 | .29E-05 | 96.488 | .342E+04 | 132.996 | 3187.992 | 1.404 | .00143 |
| 9. | 3191.942 | 1.630 | .20E-05 | 0.00 | .47E-06 | -139.886 | .29E-05 | 96.387 | .337E+04 | 134.084 | 3187.521 | 1.463 | .00139 |
| 10. | 3191.327 | 1.674 | .20E-05 | 0.00 | .47E-06 | -140.374 | .29E-05 | 96.287 | .332E+04 | 135.180 | 3187.035 | 1.514 | .00134 |
| 11. | 3190.700 | 1.712 | .20E-05 | 0.00 | .46E-06 | -140.924 | .29E-05 | 96.186 | .327E+04 | 136.282 | 3186.534 | 1.560 | .00131 |
| 12. | 3190.060 | 1.742 | .20E-05 | 0.00 | .45E-06 | -141.538 | .29E-05 | 96.086 | .322E+04 | 137.393 | 3186.018 | 1.599 | .00127 |
| 13. | 3189.406 | 1.765 | .20E-05 | 0.00 | .44E-06 | -142.219 | .29E-05 | 95.986 | .318E+04 | 138.510 | 3185.486 | 1.631 | .00123 |
| 14. | 3188.739 | 1.782 | .20E-05 | 0.00 | .44E-06 | -142.968 | .29E-05 | 95.885 | .313E+04 | 139.635 | 3184.939 | 1.657 | .00119 |
| 15. | 3188.057 | 1.792 | .20E-05 | 0.00 | .43E-06 | -143.786 | .29E-05 | 95.784 | .308E+04 | 140.768 | 3184.375 | 1.676 | .00115 |
| 16. | 3187.362 | 1.796 | .20E-05 | 0.00 | .43E-06 | -144.674 | .29E-05 | 95.682 | .303E+04 | 141.909 | 3183.796 | 1.690 | .00112 |
| 17. | 3186.653 | 1.793 | .20E-05 | 0.00 | .42E-06 | -145.632 | .29E-05 | 95.579 | .299E+04 | 143.058 | 3183.200 | 1.696 | .00108 |
| 18. | 3185.930 | 1.784 | .20E-05 | 0.00 | .41E-06 | -146.658 | .29E-05 | 95.474 | .294E+04 | 144.214 | 3182.589 | 1.697 | .00105 |
| 19. | 3185.194 | 1.769 | .20E-05 | 0.00 | .41E-06 | -147.751 | .29E-05 | 95.368 | .289E+04 | 145.379 | 3181.962 | 1.691 | .00101 |
| 20. | 3184.444 | 1.749 | .20E-05 | 0.00 | .40E-06 | -148.909 | .29E-05 | 95.259 | .285E+04 | 146.552 | 3181.320 | 1.680 | .00098 |
| 21. | 3183.682 | 1.722 | .20E-05 | 0.00 | .40E-06 | -150.128 | .29E-05 | 95.149 | .280E+04 | 147.734 | 3180.663 | 1.663 | .00095 |
| 22. | 3182.908 | 1.691 | .20E-05 | 0.00 | .40E-06 | -151.404 | .29E-05 | 95.037 | .275E+04 | 148.925 | 3179.993 | 1.641 | .00092 |
| 23. | 3182.123 | 1.654 | .20E-05 | 0.00 | .39E-06 | -152.733 | .29E-05 | 94.922 | .271E+04 | 150.125 | 3179.309 | 1.613 | .00088 |
| 24. | 3181.328 | 1.612 | .20E-05 | 0.00 | .39E-06 | -154.109 | .29E-05 | 94.805 | .266E+04 | 151.335 | 3178.613 | 1.581 | .00085 |
| 25. | 3180.524 | 1.565 | .20E-05 | 0.00 | .39E-06 | -155.527 | .29E-05 | 94.685 | .261E+04 | 152.554 | 3177.907 | 1.543 | .00082 |
| 26. | 3179.711 | 1.515 | .20E-05 | 0.00 | .38E-06 | -156.981 | .29E-05 | 94.562 | .257E+04 | 153.783 | 3177.190 | 1.501 | .00079 |
| 27. | 3178.892 | 1.460 | .20E-05 | 0.00 | .38E-06 | -158.464 | .29E-05 | 94.436 | .252E+04 | 155.023 | 3176.464 | 1.455 | .00076 |
| 28. | 3178.067 | 1.401 | .20E-05 | 0.00 | .38E-06 | -159.969 | .29E-05 | 94.308 | .248E+04 | 156.273 | 3175.731 | 1.405 | .00074 |
| 29. | 3177.239 | 1.338 | .20E-05 | 0.00 | .38E-06 | -161.491 | .29E-05 | 94.176 | .243E+04 | 157.535 | 3174.992 | 1.351 | .00071 |
| 30. | 3176.409 | 1.272 | .20E-05 | 0.00 | .38E-06 | -163.023 | .29E-05 | 94.042 | .238E+04 | 158.809 | 3174.249 | 1.293 | .00068 |
| 31. | 3175.578 | 1.203 | .20E-05 | 0.00 | .38E-06 | -164.559 | .29E-05 | 93.904 | .234E+04 | 160.096 | 3173.503 | 1.231 | .00065 |
| 32. | 3174.748 | 1.132 | .20E-05 | 0.00 | .38E-06 | -166.094 | .29E-05 | 93.764 | .229E+04 | 161.397 | 3172.757 | 1.167 | .00063 |
| 33. | 3173.922 | 1.057 | .20E-05 | 0.00 | .38E-06 | -167.622 | .29E-05 | 93.620 | .225E+04 | 162.712 | 3172.012 | 1.100 | .00060 |
| 34. | 3173.101 | .981 | .20E-05 | 0.00 | .38E-06 | -169.140 | .29E-05 | 93.474 | .220E+04 | 164.042 | 3171.270 | 1.030 | .00058 |
| 35. | 3172.288 | .902 | .20E-05 | 0.00 | .38E-06 | -170.644 | .29E-05 | 93.325 | .216E+04 | 165.389 | 3170.534 | .958 | .00055 |
| 36. | 3171.485 | .821 | .20E-05 | 0.00 | .39E-06 | -172.131 | .29E-05 | 93.173 | .211E+04 | 166.754 | 3169.805 | .883 | .00053 |
| 37. | 3170.693 | .738 | .20E-05 | 0.00 | .39E-06 | -173.598 | .29E-05 | 93.018 | .207E+04 | 168.138 | 3169.086 | .807 | .00051 |
| 38. | 3169.916 | .655 | .20E-05 | 0.00 | .39E-06 | -175.044 | .29E-05 | 92.862 | .202E+04 | 169.543 | 3168.379 | .729 | .00048 |
| 39. | 3169.155 | .569 | .20E-05 | 0.00 | .39E-06 | -176.467 | .29E-05 | 92.702 | .198E+04 | 170.971 | 3167.686 | .649 | .00046 |
| 40. | 3168.413 | .483 | .20E-05 | 0.00 | .40E-06 | -177.867 | .29E-05 | 92.541 | .194E+04 | 172.424 | 3167.010 | .568 | .00044 |
| 41. | 3167.693 | .396 | .20E-05 | 0.00 | .40E-06 | -179.243 | .29E-05 | 92.377 | .189E+04 | 173.904 | 3166.353 | .486 | .00042 |
| 42. | 3166.996 | .308 | .20E-05 | 0.00 | .40E-06 | 179.404 | .29E-05 | 92.212 | .185E+04 | 175.415 | 3165.718 | .402 | .00040 |
| 43. | 3166.325 | .220 | .20E-05 | 0.00 | .41E-06 | 178.074 | .29E-05 | 92.045 | .181E+04 | 176.958 | 3165.106 | .318 | .00038 |
| 44. | 3165.683 | .131 | .20E-05 | 0.00 | .41E-06 | 176.767 | .29E-05 | 91.876 | .177E+04 | 178.537 | 3164.520 | .233 | .00037 |
| 45. | 3165.071 | .042 | .20E-05 | 0.00 | .41E-06 | 175.481 | .29E-05 | 91.706 | .173E+04 | -179.845 | 3163.963 | .148 | .00035 |
| 46. | 3164.493 | -.047 | .20E-05 | 0.00 | .41E-06 | 174.216 | .29E-05 | 91.534 | .169E+04 | -178.183 | 3163.437 | .062 | .00033 |
| 47. | 3163.950 | -.137 | .20E-05 | 0.00 | .42E-06 | 172.970 | .29E-05 | 91.361 | .165E+04 | -176.475 | 3162.944 | -.024 | .00032 |
| 48. | 3163.444 | -.226 | .20E-05 | 0.00 | .42E-06 | 171.743 | .29E-05 | 91.187 | .161E+04 | -174.714 | 3162.486 | -.110 | .00030 |
| 49. | 3162.979 | -.314 | .20E-05 | 0.00 | .42E-06 | 170.533 | .29E-05 | 91.012 | .157E+04 | -172.897 | 3162.066 | -.196 | .00029 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 90 32 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3162.555 | -.403 | .20E-05 | 0.00 | .43E-06 | 169.339 | .29E-05 | 90.835 | .154E+04 | -171.019 | 3161.685 | -.282 | .00028 |
| 51. | 3162.176 | -.491 | .20E-05 | 0.00 | .43E-06 | 168.160 | .29E-05 | 90.658 | .150E+04 | -169.074 | 3161.346 | -.368 | .00026 |
| 52. | 3161.842 | -.578 | .20E-05 | 0.00 | .44E-06 | 166.995 | .29E-05 | 90.480 | .147E+04 | -167.059 | 3161.050 | -.453 | .00025 |
| 53. | 3161.557 | -.665 | .20E-05 | 0.00 | .44E-06 | 165.844 | .29E-05 | 90.302 | .144E+04 | -164.966 | 3160.801 | -.538 | .00024 |
| 54. | 3161.321 | -.751 | .20E-05 | 0.00 | .44E-06 | 164.705 | .29E-05 | 90.122 | .140E+04 | -162.792 | 3160.598 | -.623 | .00023 |
| 55. | 3161.137 | -.836 | .20E-05 | 0.00 | .44E-06 | 163.579 | .29E-05 | 89.942 | .138E+04 | -160.532 | 3160.444 | -.707 | .00022 |
| 56. | 3161.006 | -.920 | .20E-05 | 0.00 | .45E-06 | 162.464 | .29E-05 | 89.761 | .135E+04 | -158.182 | 3160.341 | -.790 | .00021 |
| 57. | 3160.929 | -1.004 | .20E-05 | 0.00 | .45E-06 | 161.359 | .29E-05 | 89.579 | .132E+04 | -155.738 | 3160.290 | -.872 | .00020 |
| 58. | 3160.908 | -1.086 | .20E-05 | 0.00 | .45E-06 | 160.266 | .29E-05 | 89.397 | .130E+04 | -153.199 | 3160.292 | -.953 | .00019 |
| 59. | 3160.945 | -1.167 | .20E-05 | 0.00 | .46E-06 | 159.183 | .29E-05 | 89.214 | .128E+04 | -150.564 | 3160.349 | -1.033 | .00019 |
| 60. | 3161.040 | -1.247 | .20E-05 | 0.00 | .46E-06 | 158.110 | .29E-05 | 89.030 | .126E+04 | -147.834 | 3160.462 | -1.113 | .00018 |
| 61. | 3161.194 | -1.326 | .20E-05 | 0.00 | .46E-06 | 157.047 | .29E-05 | 88.845 | .124E+04 | -145.012 | 3160.631 | -1.191 | .00018 |
| 62. | 3161.409 | -1.403 | .20E-05 | 0.00 | .47E-06 | 155.995 | .29E-05 | 88.659 | .123E+04 | -142.105 | 3160.857 | -1.267 | .00017 |
| 63. | 3161.685 | -1.479 | .20E-05 | 0.00 | .47E-06 | 154.952 | .29E-05 | 88.472 | .122E+04 | -139.119 | 3161.142 | -1.343 | .00017 |
| 64. | 3162.023 | -1.554 | .20E-05 | 0.00 | .47E-06 | 153.920 | .29E-05 | 88.284 | .122E+04 | -136.066 | 3161.485 | -1.417 | .00017 |
| 65. | 3162.423 | -1.627 | .20E-05 | 0.00 | .47E-06 | 152.899 | .29E-05 | 88.095 | .121E+04 | -132.960 | 3161.888 | -1.489 | .00017 |
| 66. | 3162.885 | -1.698 | .20E-05 | 0.00 | .48E-06 | 151.888 | .29E-05 | 87.905 | .122E+04 | -129.816 | 3162.350 | -1.560 | .00017 |
| 67. | 3163.411 | -1.767 | .20E-05 | 0.00 | .48E-06 | 150.888 | .29E-05 | 87.713 | .122E+04 | -126.652 | 3162.871 | -1.629 | .00017 |
| 68. | 3164.000 | -1.835 | .20E-05 | 0.00 | .48E-06 | 149.899 | .29E-05 | 87.519 | .123E+04 | -123.487 | 3163.451 | -1.696 | .00017 |
| 69. | 3164.651 | -1.900 | .20E-05 | 0.00 | .48E-06 | 148.921 | .29E-05 | 87.324 | .125E+04 | -120.340 | 3164.091 | -1.761 | .00018 |
| 70. | 3165.366 | -1.964 | .20E-05 | 0.00 | .49E-06 | 147.954 | .29E-05 | 87.127 | .126E+04 | -117.232 | 3164.789 | -1.824 | .00018 |
| 71. | 3166.142 | -2.025 | .20E-05 | 0.00 | .49E-06 | 146.999 | .29E-05 | 86.928 | .129E+04 | -114.179 | 3165.545 | -1.885 | .00019 |
| 72. | 3166.981 | -2.084 | .20E-05 | 0.00 | .49E-06 | 146.054 | .29E-05 | 86.727 | .131E+04 | -111.200 | 3166.358 | -1.943 | .00020 |
| 73. | 3167.880 | -2.140 | .20E-05 | 0.00 | .49E-06 | 145.120 | .29E-05 | 86.524 | .134E+04 | -108.308 | 3167.228 | -1.999 | .00021 |
| 74. | 3168.840 | -2.194 | .20E-05 | 0.00 | .49E-06 | 144.198 | .28E-05 | 86.318 | .138E+04 | -105.518 | 3168.153 | -2.052 | .00022 |
| 75. | 3169.859 | -2.245 | .20E-05 | 0.00 | .49E-06 | 143.286 | .28E-05 | 86.110 | .142E+04 | -102.838 | 3169.133 | -2.103 | .00023 |
| 76. | 3170.937 | -2.293 | .20E-05 | 0.00 | .50E-06 | 142.384 | .28E-05 | 85.900 | .146E+04 | -100.275 | 3170.165 | -2.150 | .00024 |
| 77. | 3172.070 | -2.338 | .20E-05 | 0.00 | .50E-06 | 141.493 | .28E-05 | 85.687 | .151E+04 | -97.835 | 3171.248 | -2.194 | .00026 |
| 78. | 3173.260 | -2.379 | .20E-05 | 0.00 | .50E-06 | 140.610 | .28E-05 | 85.471 | .156E+04 | -95.520 | 3172.380 | -2.235 | .00028 |
| 79. | 3174.502 | -2.417 | .20E-05 | 0.00 | .50E-06 | 139.737 | .28E-05 | 85.252 | .162E+04 | -93.331 | 3173.560 | -2.273 | .00030 |
| 80. | 3175.796 | -2.452 | .20E-05 | 0.00 | .50E-06 | 138.871 | .28E-05 | 85.031 | .168E+04 | -91.266 | 3174.785 | -2.306 | .00032 |
| 81. | 3177.140 | -2.482 | .20E-05 | 0.00 | .49E-06 | 138.012 | .28E-05 | 84.806 | .174E+04 | -89.323 | 3176.053 | -2.336 | .00034 |
| 82. | 3178.532 | -2.508 | .20E-05 | 0.00 | .49E-06 | 137.159 | .28E-05 | 84.579 | .180E+04 | -87.499 | 3177.361 | -2.362 | .00037 |
| 83. | 3179.968 | -2.531 | .20E-05 | 0.00 | .49E-06 | 136.311 | .28E-05 | 84.349 | .187E+04 | -85.790 | 3178.708 | -2.383 | .00040 |
| 84. | 3181.447 | -2.548 | .20E-05 | 0.00 | .49E-06 | 135.466 | .28E-05 | 84.115 | .194E+04 | -84.191 | 3180.089 | -2.400 | .00043 |
| 85. | 3182.965 | -2.561 | .20E-05 | 0.00 | .49E-06 | 134.622 | .28E-05 | 83.879 | .202E+04 | -82.697 | 3181.502 | -2.413 | .00046 |
| 86. | 3184.520 | -2.569 | .20E-05 | 0.00 | .48E-06 | 133.778 | .28E-05 | 83.639 | .209E+04 | -81.303 | 3182.945 | -2.420 | .00049 |
| 87. | 3186.109 | -2.572 | .20E-05 | 0.00 | .48E-06 | 132.932 | .28E-05 | 83.397 | .217E+04 | -80.005 | 3184.413 | -2.423 | .00053 |
| 88. | 3187.728 | -2.569 | .20E-05 | 0.00 | .47E-06 | 132.081 | .28E-05 | 83.152 | .226E+04 | -78.798 | 3185.903 | -2.420 | .00057 |
| 89. | 3189.374 | -2.560 | .20E-05 | 0.00 | .47E-06 | 131.222 | .28E-05 | 82.905 | .234E+04 | -77.677 | 3187.413 | -2.411 | .00061 |
| 90. | 3191.044 | -2.546 | .20E-05 | 0.00 | .46E-06 | 130.353 | .28E-05 | 82.655 | .242E+04 | -76.638 | 3188.937 | -2.398 | .00066 |
| 91. | 3192.733 | -2.526 | .20E-05 | 0.00 | .46E-06 | 129.470 | .28E-05 | 82.403 | .251E+04 | -75.676 | 3190.473 | -2.378 | .00071 |
| 92. | 3194.438 | -2.499 | .20E-05 | 0.00 | .45E-06 | 128.570 | .28E-05 | 82.149 | .260E+04 | -74.788 | 3192.016 | -2.352 | .00076 |
| 93. | 3196.154 | -2.466 | .19E-05 | 0.00 | .44E-06 | 127.647 | .28E-05 | 81.894 | .269E+04 | -73.970 | 3193.562 | -2.321 | .00081 |
| 94. | 3197.877 | -2.427 | .19E-05 | 0.00 | .44E-06 | 126.697 | .28E-05 | 81.637 | .278E+04 | -73.220 | 3195.107 | -2.283 | .00087 |
| 95. | 3199.603 | -2.381 | .19E-05 | 0.00 | .43E-06 | 125.714 | .28E-05 | 81.379 | .287E+04 | -72.533 | 3196.648 | -2.238 | .00092 |
| 96. | 3201.328 | -2.327 | .19E-05 | 0.00 | .42E-06 | 124.692 | .28E-05 | 81.121 | .297E+04 | -71.908 | 3198.179 | -2.188 | .00098 |
| 97. | 3203.047 | -2.267 | .19E-05 | 0.00 | .41E-06 | 123.623 | .27E-05 | 80.863 | .306E+04 | -71.342 | 3199.697 | -2.131 | .00105 |
| 98. | 3204.755 | -2.200 | .19E-05 | 0.00 | .40E-06 | 122.497 | .27E-05 | 80.605 | .316E+04 | -70.833 | 3201.198 | -2.067 | .00111 |
| 99. | 3206.448 | -2.126 | .19E-05 | 0.00 | .39E-06 | 121.304 | .27E-05 | 80.348 | .325E+04 | -70.379 | 3202.676 | -1.998 | .00118 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 90 32 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3208.120 | -2.044 | .19E-05 | 0.00 | .37E-06 | 120.032 | .27E-05 | 80.093 | .334E+04 | -69.979 | 3204.128 | -1.921 | .00124 |
| 101. | 3209.767 | -1.956 | .19E-05 | 0.00 | .36E-06 | 118.666 | .27E-05 | 79.840 | .344E+04 | -69.630 | 3205.549 | -1.839 | .00131 |
| 102. | 3211.385 | -1.860 | .19E-05 | 0.00 | .35E-06 | 117.188 | .27E-05 | 79.590 | .353E+04 | -69.331 | 3206.935 | -1.750 | .00139 |
| 103. | 3212.968 | -1.758 | .19E-05 | 0.00 | .33E-06 | 115.577 | .27E-05 | 79.343 | .363E+04 | -69.082 | 3208.283 | -1.656 | .00146 |
| 104. | 3214.512 | -1.649 | .19E-05 | 0.00 | .32E-06 | 113.807 | .27E-05 | 79.101 | .372E+04 | -68.881 | 3209.588 | -1.555 | .00153 |
| 105. | 3216.012 | -1.534 | .19E-05 | 0.00 | .30E-06 | 111.845 | .27E-05 | 78.863 | .381E+04 | -68.727 | 3210.846 | -1.449 | .00161 |
| 106. | 3217.464 | -1.412 | .19E-05 | 0.00 | .29E-06 | 109.652 | .27E-05 | 78.631 | .390E+04 | -68.619 | 3212.054 | -1.338 | .00168 |
| 107. | 3218.863 | -1.285 | .19E-05 | 0.00 | .27E-06 | 107.180 | .27E-05 | 78.406 | .399E+04 | -68.557 | 3213.208 | -1.222 | .00176 |
| 108. | 3220.205 | -1.152 | .19E-05 | 0.00 | .26E-06 | 104.369 | .27E-05 | 78.187 | .407E+04 | -68.540 | 3214.305 | -1.101 | .00183 |
| 109. | 3221.486 | -1.014 | .19E-05 | 0.00 | .24E-06 | 101.144 | .27E-05 | 77.977 | .416E+04 | -68.567 | 3215.341 | -.976 | .00191 |
| 110. | 3222.703 | -.872 | .19E-05 | 0.00 | .22E-06 | 97.416 | .27E-05 | 77.775 | .424E+04 | -68.638 | 3216.314 | -.847 | .00198 |
| 111. | 3223.852 | -.725 | .19E-05 | 0.00 | .21E-06 | 93.076 | .27E-05 | 77.582 | .432E+04 | -68.751 | 3217.222 | -.714 | .00206 |
| 112. | 3224.930 | -.575 | .19E-05 | 0.00 | .19E-06 | 88.004 | .27E-05 | 77.399 | .440E+04 | -68.907 | 3218.062 | -.579 | .00213 |
| 113. | 3225.934 | -.422 | .19E-05 | 0.00 | .18E-06 | 82.074 | .27E-05 | 77.227 | .447E+04 | -69.105 | 3218.831 | -.441 | .00220 |
| 114. | 3226.862 | -.266 | .19E-05 | 0.00 | .17E-06 | 75.187 | .27E-05 | 77.066 | .454E+04 | -69.343 | 3219.529 | -.302 | .00227 |
| 115. | 3227.711 | -.109 | .19E-05 | 0.00 | .16E-06 | 67.309 | .27E-05 | 76.916 | .461E+04 | -69.622 | 3220.155 | -.161 | .00234 |
| 116. | 3228.480 | .049 | .19E-05 | 0.00 | .15E-06 | 58.541 | .27E-05 | 76.778 | .468E+04 | -69.940 | 3220.706 | -.019 | .00241 |
| 117. | 3229.168 | .207 | .19E-05 | 0.00 | .15E-06 | 49.158 | .27E-05 | 76.653 | .474E+04 | -70.296 | 3221.182 | .123 | .00247 |
| 118. | 3229.772 | .366 | .19E-05 | 0.00 | .15E-06 | 39.596 | .27E-05 | 76.541 | .480E+04 | -70.690 | 3221.583 | .265 | .00254 |
| 119. | 3230.294 | .523 | .19E-05 | 0.00 | .16E-06 | 30.346 | .27E-05 | 76.441 | .486E+04 | -71.121 | 3221.910 | .406 | .00260 |
| 120. | 3230.733 | .678 | .19E-05 | 0.00 | .16E-06 | 21.807 | .27E-05 | 76.355 | .491E+04 | -71.587 | 3222.162 | .546 | .00265 |
| 121. | 3231.089 | .831 | .19E-05 | 0.00 | .18E-06 | 14.209 | .27E-05 | 76.282 | .496E+04 | -72.088 | 3222.339 | .684 | .00271 |
| 122. | 3231.362 | .981 | .19E-05 | 0.00 | .19E-06 | 7.611 | .27E-05 | 76.222 | .501E+04 | -72.622 | 3222.444 | .819 | .00276 |
| 123. | 3231.554 | 1.128 | .20E-05 | 0.00 | .20E-06 | 1.959 | .27E-05 | 76.175 | .505E+04 | -73.189 | 3222.478 | .951 | .00281 |
| 124. | 3231.667 | 1.270 | .20E-05 | 0.00 | .22E-06 | -2.858 | .27E-05 | 76.141 | .509E+04 | -73.785 | 3222.441 | 1.080 | .00285 |
| 125. | 3231.701 | 1.408 | .20E-05 | 0.00 | .24E-06 | -6.966 | .27E-05 | 76.120 | .513E+04 | -74.412 | 3222.336 | 1.206 | .00290 |
| 126. | 3231.659 | 1.540 | .20E-05 | 0.00 | .26E-06 | -10.481 | .27E-05 | 76.112 | .516E+04 | -75.066 | 3222.166 | 1.327 | .00294 |
| 127. | 3231.544 | 1.666 | .20E-05 | 0.00 | .28E-06 | -13.508 | .28E-05 | 76.116 | .519E+04 | -75.746 | 3221.932 | 1.443 | .00297 |
| 128. | 3231.358 | 1.786 | .20E-05 | 0.00 | .30E-06 | -16.130 | .28E-05 | 76.132 | .522E+04 | -76.452 | 3221.637 | 1.555 | .00301 |
| 129. | 3231.104 | 1.900 | .20E-05 | 0.00 | .32E-06 | -18.419 | .28E-05 | 76.159 | .524E+04 | -77.180 | 3221.285 | 1.661 | .00304 |
| 130. | 3230.785 | 2.007 | .20E-05 | 0.00 | .33E-06 | -20.429 | .28E-05 | 76.198 | .526E+04 | -77.931 | 3220.878 | 1.761 | .00307 |
| 131. | 3230.405 | 2.106 | .20E-05 | 0.00 | .35E-06 | -22.207 | .28E-05 | 76.247 | .528E+04 | -78.702 | 3220.420 | 1.856 | .00309 |
| 132. | 3229.967 | 2.198 | .20E-05 | 0.00 | .37E-06 | -23.789 | .28E-05 | 76.306 | .529E+04 | -79.492 | 3219.914 | 1.944 | .00311 |
| 133. | 3229.474 | 2.282 | .20E-05 | 0.00 | .39E-06 | -25.204 | .28E-05 | 76.374 | .530E+04 | -80.299 | 3219.363 | 2.026 | .00313 |
| 134. | 3228.931 | 2.358 | .20E-05 | 0.00 | .41E-06 | -26.477 | .28E-05 | 76.451 | .531E+04 | -81.121 | 3218.771 | 2.101 | .00315 |
| 135. | 3228.341 | 2.426 | .20E-05 | 0.00 | .43E-06 | -27.627 | .28E-05 | 76.537 | .532E+04 | -81.959 | 3218.143 | 2.170 | .00316 |
| 136. | 3227.708 | 2.486 | .20E-05 | 0.00 | .44E-06 | -28.671 | .28E-05 | 76.631 | .532E+04 | -82.809 | 3217.481 | 2.232 | .00317 |
| 137. | 3227.036 | 2.537 | .20E-05 | 0.00 | .46E-06 | -29.623 | .28E-05 | 76.731 | .532E+04 | -83.670 | 3216.789 | 2.287 | .00318 |
| 138. | 3226.330 | 2.580 | .20E-05 | 0.00 | .48E-06 | -30.493 | .28E-05 | 76.839 | .532E+04 | -84.543 | 3216.071 | 2.335 | .00318 |
| 139. | 3225.592 | 2.614 | .20E-05 | 0.00 | .49E-06 | -31.291 | .28E-05 | 76.953 | .531E+04 | -85.424 | 3215.331 | 2.375 | .00318 |
| 140. | 3224.827 | 2.640 | .20E-05 | 0.00 | .50E-06 | -32.026 | .28E-05 | 77.072 | .531E+04 | -86.314 | 3214.573 | 2.409 | .00318 |
| 141. | 3224.039 | 2.658 | .20E-05 | 0.00 | .52E-06 | -32.704 | .29E-05 | 77.196 | .530E+04 | -87.210 | 3213.800 | 2.435 | .00318 |
| 142. | 3223.231 | 2.667 | .20E-05 | 0.00 | .53E-06 | -33.331 | .29E-05 | 77.325 | .528E+04 | -88.113 | 3213.015 | 2.454 | .00317 |
| 143. | 3222.407 | 2.669 | .20E-05 | 0.00 | .54E-06 | -33.912 | .29E-05 | 77.458 | .527E+04 | -89.022 | 3212.223 | 2.466 | .00316 |
| 144. | 3221.571 | 2.661 | .21E-05 | 0.00 | .56E-06 | -34.452 | .29E-05 | 77.595 | .525E+04 | -89.935 | 3211.426 | 2.470 | .00315 |
| 145. | 3220.725 | 2.646 | .21E-05 | 0.00 | .56E-06 | -34.955 | .29E-05 | 77.735 | .524E+04 | -90.852 | 3210.627 | 2.468 | .00314 |
| 146. | 3219.873 | 2.623 | .21E-05 | 0.00 | .58E-06 | -35.424 | .29E-05 | 77.878 | .522E+04 | -91.772 | 3209.829 | 2.458 | .00312 |
| 147. | 3219.019 | 2.592 | .21E-05 | 0.00 | .58E-06 | -35.863 | .29E-05 | 78.023 | .520E+04 | -92.695 | 3209.036 | 2.441 | .00310 |
| 148. | 3218.164 | 2.554 | .21E-05 | 0.00 | .59E-06 | -36.273 | .29E-05 | 78.171 | .517E+04 | -93.621 | 3208.250 | 2.418 | .00308 |
| 149. | 3217.311 | 2.507 | .21E-05 | 0.00 | .60E-06 | -36.659 | .29E-05 | 78.320 | .515E+04 | -94.549 | 3207.473 | 2.387 | .00306 |

EULER ANGLES 0 THETA 0 WITH ROT CONS 0 90 32 LITHIUM TANTALATE (WARNER ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3216.464 | 2.454 | .21E-05 | 0.00 | .61E-06 | -37.022 | .29E-05 | 78.471 | .512E+04 | -95.479 | 3206.707 | 2.349 | .00303 |
| 151. | 3215.623 | 2.394 | .21E-05 | 0.00 | .61E-06 | -37.364 | .29E-05 | 78.622 | .509E+04 | -96.411 | 3205.954 | 2.305 | .00301 |
| 152. | 3214.792 | 2.326 | .21E-05 | 0.00 | .62E-06 | -37.687 | .29E-05 | 78.775 | .506E+04 | -97.344 | 3205.216 | 2.254 | .00298 |
| 153. | 3213.972 | 2.252 | .21E-05 | 0.00 | .62E-06 | -37.993 | .29E-05 | 78.928 | .503E+04 | -98.279 | 3204.495 | 2.197 | .00295 |
| 154. | 3213.164 | 2.172 | .21E-05 | 0.00 | .63E-06 | -38.283 | .29E-05 | 79.082 | .499E+04 | -99.215 | 3203.792 | 2.133 | .00292 |
| 155. | 3212.370 | 2.085 | .21E-05 | 0.00 | .63E-06 | -38.559 | .29E-05 | 79.235 | .496E+04 | -100.153 | 3203.108 | 2.064 | .00288 |
| 156. | 3211.590 | 1.992 | .21E-05 | 0.00 | .63E-06 | -38.823 | .29E-05 | 79.389 | .492E+04 | -101.092 | 3202.444 | 1.988 | .00285 |
| 157. | 3210.827 | 1.894 | .21E-05 | 0.00 | .64E-06 | -39.075 | .29E-05 | 79.542 | .489E+04 | -102.033 | 3201.800 | 1.907 | .00281 |
| 158. | 3210.080 | 1.791 | .21E-05 | 0.00 | .64E-06 | -39.316 | .29E-05 | 79.694 | .485E+04 | -102.976 | 3201.176 | 1.820 | .00277 |
| 159. | 3209.350 | 1.683 | .21E-05 | 0.00 | .64E-06 | -39.547 | .30E-05 | 79.846 | .481E+04 | -103.920 | 3200.574 | 1.728 | .00273 |
| 160. | 3208.637 | 1.570 | .21E-05 | 0.00 | .64E-06 | -39.770 | .30E-05 | 79.997 | .477E+04 | -104.866 | 3199.992 | 1.631 | .00269 |
| 161. | 3207.941 | 1.454 | .21E-05 | 0.00 | .64E-06 | -39.985 | .30E-05 | 80.147 | .472E+04 | -105.815 | 3199.431 | 1.530 | .00265 |
| 162. | 3207.263 | 1.333 | .21E-05 | 0.00 | .64E-06 | -40.191 | .30E-05 | 80.296 | .468E+04 | -106.766 | 3198.890 | 1.424 | .00261 |
| 163. | 3206.601 | 1.209 | .21E-05 | 0.00 | .63E-06 | -40.391 | .30E-05 | 80.443 | .464E+04 | -107.719 | 3198.369 | 1.315 | .00257 |
| 164. | 3205.955 | 1.082 | .21E-05 | 0.00 | .63E-06 | -40.583 | .30E-05 | 80.589 | .459E+04 | -108.676 | 3197.867 | 1.202 | .00252 |
| 165. | 3205.325 | .953 | .21E-05 | 0.00 | .63E-06 | -40.768 | .30E-05 | 80.733 | .455E+04 | -109.635 | 3197.382 | 1.085 | .00248 |
| 166. | 3204.710 | .822 | .21E-05 | 0.00 | .63E-06 | -40.946 | .30E-05 | 80.876 | .450E+04 | -110.598 | 3196.915 | .966 | .00243 |
| 167. | 3204.109 | .689 | .21E-05 | 0.00 | .62E-06 | -41.117 | .30E-05 | 81.017 | .445E+04 | -111.564 | 3196.463 | .845 | .00239 |
| 168. | 3203.520 | .556 | .21E-05 | 0.00 | .62E-06 | -41.280 | .30E-05 | 81.156 | .441E+04 | -112.534 | 3196.025 | .722 | .00234 |
| 169. | 3202.944 | .422 | .21E-05 | 0.00 | .62E-06 | -41.434 | .30E-05 | 81.293 | .436E+04 | -113.507 | 3195.600 | .597 | .00229 |
| 170. | 3202.378 | .288 | .21E-05 | 0.00 | .61E-06 | -41.579 | .30E-05 | 81.428 | .431E+04 | -114.485 | 3195.187 | .471 | .00225 |
| 171. | 3201.822 | .154 | .21E-05 | 0.00 | .60E-06 | -41.714 | .30E-05 | 81.561 | .426E+04 | -115.467 | 3194.784 | .346 | .00220 |
| 172. | 3201.274 | .022 | .21E-05 | 0.00 | .60E-06 | -41.837 | .30E-05 | 81.692 | .421E+04 | -116.453 | 3194.390 | .220 | .00215 |
| 173. | 3200.733 | -.109 | .21E-05 | 0.00 | .59E-06 | -41.948 | .30E-05 | 81.821 | .416E+04 | -117.445 | 3194.002 | .094 | .00210 |
| 174. | 3200.197 | -.238 | .21E-05 | 0.00 | .59E-06 | -42.044 | .30E-05 | 81.947 | .411E+04 | -118.441 | 3193.620 | -.030 | .00206 |
| 175. | 3199.665 | -.364 | .21E-05 | 0.00 | .58E-06 | -42.123 | .30E-05 | 82.072 | .406E+04 | -119.442 | 3193.241 | -.152 | .00201 |
| 176. | 3199.136 | -.486 | .21E-05 | 0.00 | .57E-06 | -42.185 | .30E-05 | 82.194 | .401E+04 | -120.449 | 3192.865 | -.273 | .00196 |
| 177. | 3198.609 | -.606 | .21E-05 | 0.00 | .57E-06 | -42.226 | .30E-05 | 82.314 | .396E+04 | -121.461 | 3192.489 | -.391 | .00191 |
| 178. | 3198.081 | -.721 | .21E-05 | 0.00 | .56E-06 | -42.244 | .30E-05 | 82.432 | .391E+04 | -122.478 | 3192.112 | -.506 | .00187 |
| 179. | 3197.553 | -.832 | .21E-05 | 0.00 | .55E-06 | -42.237 | .29E-05 | 82.548 | .386E+04 | -123.502 | 3191.733 | -.617 | .00182 |
| 180. | 3197.021 | -.938 | .21E-05 | 0.00 | .54E-06 | -42.201 | .29E-05 | 82.662 | .381E+04 | -124.531 | 3191.349 | -.725 | .00177 |

111-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5126.076 | 0.000 | .13E-05 | 0.00 | .83E-06 | -90.000 | .21E-05 | 90.000 |
| 1. | 5126.533 | .585 | .13E-05 | 0.00 | .83E-06 | -88.887 | .21E-05 | 90.511 |
| 2. | 5127.902 | 1.167 | .13E-05 | 0.00 | .83E-06 | -87.777 | .21E-05 | 91.021 |
| 3. | 5130.174 | 1.739 | .13E-05 | 0.00 | .82E-06 | -86.672 | .21E-05 | 91.526 |
| 4. | 5133.335 | 2.299 | .13E-05 | 0.00 | .82E-06 | -85.575 | .21E-05 | 92.025 |
| 5. | 5137.362 | 2.843 | .13E-05 | 0.00 | .81E-06 | -84.488 | .21E-05 | 92.516 |
| 6. | 5142.229 | 3.365 | .13E-05 | 0.00 | .81E-06 | -83.415 | .21E-05 | 92.998 |
| 7. | 5147.902 | 3.861 | .13E-05 | 0.00 | .80E-06 | -82.356 | .21E-05 | 93.467 |
| 8. | 5154.343 | 4.328 | .13E-05 | 0.00 | .79E-06 | -81.316 | .21E-05 | 93.923 |
| 9. | 5161.504 | 4.762 | .13E-05 | 0.00 | .78E-06 | -80.297 | .21E-05 | 94.365 |
| 10. | 5169.333 | 5.158 | .13E-05 | 0.00 | .76E-06 | -79.300 | .21E-05 | 94.789 |
| 11. | 5177.771 | 5.512 | .13E-05 | 0.00 | .75E-06 | -78.329 | .22E-05 | 95.196 |
| 12. | 5186.752 | 5.820 | .13E-05 | 0.00 | .73E-06 | -77.386 | .22E-05 | 95.584 |
| 13. | 5196.201 | 6.078 | .14E-05 | 0.00 | .71E-06 | -76.472 | .22E-05 | 95.952 |
| 14. | 5206.037 | 6.282 | .14E-05 | 0.00 | .69E-06 | -75.591 | .22E-05 | 96.299 |
| 15. | 5216.173 | 6.427 | .14E-05 | 0.00 | .67E-06 | -74.745 | .22E-05 | 96.624 |
| 16. | 5226.513 | 6.509 | .14E-05 | 0.00 | .64E-06 | -73.937 | .22E-05 | 96.928 |
| 17. | 5236.952 | 6.524 | .14E-05 | 0.00 | .62E-06 | -73.168 | .22E-05 | 97.208 |
| 18. | 5247.379 | 6.468 | .14E-05 | 0.00 | .58E-06 | -72.441 | .23E-05 | 97.466 |
| 19. | 5257.675 | 6.337 | .15E-05 | 0.00 | .55E-06 | -71.759 | .23E-05 | 97.701 |
| 20. | 5267.717 | 6.128 | .15E-05 | 0.00 | .51E-06 | -71.124 | .23E-05 | 97.913 |
| 21. | 5277.374 | 5.839 | .15E-05 | 0.00 | .47E-06 | -70.538 | .23E-05 | 98.103 |
| 22. | 5286.510 | 5.468 | .15E-05 | 0.00 | .43E-06 | -70.006 | .23E-05 | 98.270 |
| 23. | 5294.991 | 5.014 | .15E-05 | 0.00 | .39E-06 | -69.528 | .23E-05 | 98.416 |
| 24. | 5302.682 | 4.480 | .15E-05 | 0.00 | .34E-06 | -69.107 | .23E-05 | 98.541 |
| 25. | 5309.453 | 3.870 | .15E-05 | 0.00 | .29E-06 | -68.746 | .24E-05 | 98.645 |
| 26. | 5315.182 | 3.190 | .15E-05 | 0.00 | .23E-06 | -68.448 | .24E-05 | 98.729 |
| 27. | 5319.762 | 2.450 | .16E-05 | 0.00 | .18E-06 | -68.213 | .24E-05 | 98.794 |
| 28. | 5323.102 | 1.662 | .16E-05 | 0.00 | .12E-06 | -68.045 | .24E-05 | 98.840 |
| 29. | 5325.134 | .840 | .16E-05 | 0.00 | .60E-07 | -67.943 | .24E-05 | 98.867 |
| 30. | 5325.816 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .24E-05 | 98.876 |
| 31. | 5325.134 | -.840 | .16E-05 | 0.00 | .60E-07 | 112.057 | .24E-05 | 98.867 |
| 32. | 5323.102 | -1.662 | .16E-05 | 0.00 | .12E-06 | 111.955 | .24E-05 | 98.840 |
| 33. | 5319.762 | -2.450 | .16E-05 | 0.00 | .18E-06 | 111.787 | .24E-05 | 98.794 |
| 34. | 5315.182 | -3.190 | .15E-05 | 0.00 | .23E-06 | 111.552 | .24E-05 | 98.729 |
| 35. | 5309.453 | -3.870 | .15E-05 | 0.00 | .29E-06 | 111.254 | .24E-05 | 98.645 |
| 36. | 5302.682 | -4.480 | .15E-05 | 0.00 | .34E-06 | 110.893 | .23E-05 | 98.541 |
| 37. | 5294.991 | -5.014 | .15E-05 | 0.00 | .39E-06 | 110.472 | .23E-05 | 98.416 |
| 38. | 5286.510 | -5.468 | .15E-05 | 0.00 | .43E-06 | 109.994 | .23E-05 | 98.270 |
| 39. | 5277.373 | -5.839 | .15E-05 | 0.00 | .47E-06 | 109.462 | .23E-05 | 98.103 |
| 40. | 5267.717 | -6.128 | .15E-05 | 0.00 | .51E-06 | 108.876 | .23E-05 | 97.913 |
| 41. | 5257.675 | -6.337 | .15E-05 | 0.00 | .55E-06 | 108.241 | .23E-05 | 97.701 |
| 42. | 5247.378 | -6.468 | .14E-05 | 0.00 | .58E-06 | 107.559 | .23E-05 | 97.466 |
| 43. | 5236.951 | -6.524 | .14E-05 | 0.00 | .62E-06 | 106.832 | .22E-05 | 97.208 |
| 44. | 5226.512 | -6.509 | .14E-05 | 0.00 | .64E-06 | 106.063 | .22E-05 | 96.928 |
| 45. | 5216.173 | -6.427 | .14E-05 | 0.00 | .67E-06 | 105.255 | .22E-05 | 96.624 |
| 46. | 5206.037 | -6.282 | .14E-05 | 0.00 | .69E-06 | 104.409 | .22E-05 | 96.299 |
| 47. | 5196.200 | -6.078 | .14E-05 | 0.00 | .71E-06 | 103.528 | .22E-05 | 95.952 |
| 48. | 5186.751 | -5.820 | .13E-05 | 0.00 | .73E-06 | 102.614 | .22E-05 | 95.584 |
| 49. | 5177.771 | -5.512 | .13E-05 | 0.00 | .75E-06 | 101.671 | .22E-05 | 95.196 |

111-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5169.332 | -5.158 | .13E-05 | 0.00 | .76E-06 | 100.700 | .21E-05 | 94.789 |
| 51. | 5161.503 | -4.762 | .13E-05 | 0.00 | .78E-06 | 99.703 | .21E-05 | 94.365 |
| 52. | 5154.342 | -4.328 | .13E-05 | 0.00 | .79E-06 | 98.684 | .21E-05 | 93.923 |
| 53. | 5147.901 | -3.861 | .13E-05 | 0.00 | .80E-06 | 97.644 | .21E-05 | 93.467 |
| 54. | 5142.227 | -3.365 | .13E-05 | 0.00 | .81E-06 | 96.585 | .21E-05 | 92.998 |
| 55. | 5137.361 | -2.843 | .13E-05 | 0.00 | .81E-06 | 95.512 | .21E-05 | 92.516 |
| 56. | 5133.333 | -2.299 | .13E-05 | 0.00 | .82E-06 | 94.425 | .21E-05 | 92.025 |
| 57. | 5130.173 | -1.739 | .13E-05 | 0.00 | .82E-06 | 93.328 | .21E-05 | 91.526 |
| 58. | 5127.901 | -1.167 | .13E-05 | 0.00 | .83E-06 | 92.223 | .21E-05 | 91.021 |
| 59. | 5126.531 | -.585 | .13E-05 | 0.00 | .83E-06 | 91.113 | .21E-05 | 90.511 |
| 60. | 5126.075 | 0.000 | .13E-05 | 0.00 | .83E-06 | 90.000 | .21E-05 | 90.000 |
| 61. | 5126.535 | .586 | .13E-05 | 0.00 | .83E-06 | 88.887 | .21E-05 | 89.489 |
| 62. | 5127.906 | 1.167 | .13E-05 | 0.00 | .83E-06 | 87.777 | .21E-05 | 88.979 |
| 63. | 5130.176 | 1.739 | .13E-05 | 0.00 | .82E-06 | 86.672 | .21E-05 | 88.474 |
| 64. | 5133.337 | 2.300 | .13E-05 | 0.00 | .82E-06 | 85.575 | .21E-05 | 87.975 |
| 65. | 5137.364 | 2.843 | .13E-05 | 0.00 | .81E-06 | 84.488 | .21E-05 | 87.484 |
| 66. | 5142.230 | 3.365 | .13E-05 | 0.00 | .81E-06 | 83.415 | .21E-05 | 87.002 |
| 67. | 5147.904 | 3.861 | .13E-05 | 0.00 | .80E-06 | 82.356 | .21E-05 | 86.533 |
| 68. | 5154.344 | 4.328 | .13E-05 | 0.00 | .79E-06 | 81.316 | .21E-05 | 86.077 |
| 69. | 5161.505 | 4.762 | .13E-05 | 0.00 | .78E-06 | 80.297 | .21E-05 | 85.635 |
| 70. | 5169.334 | 5.158 | .13E-05 | 0.00 | .76E-06 | 79.300 | .21E-05 | 85.211 |
| 71. | 5177.772 | 5.512 | .13E-05 | 0.00 | .75E-06 | 78.329 | .22E-05 | 84.804 |
| 72. | 5186.752 | 5.820 | .13E-05 | 0.00 | .73E-06 | 77.386 | .22E-05 | 84.416 |
| 73. | 5196.201 | 6.078 | .14E-05 | 0.00 | .71E-06 | 76.472 | .22E-05 | 84.048 |
| 74. | 5206.038 | 6.282 | .14E-05 | 0.00 | .69E-06 | 75.591 | .22E-05 | 83.701 |
| 75. | 5216.174 | 6.427 | .14E-05 | 0.00 | .67E-06 | 74.745 | .22E-05 | 83.376 |
| 76. | 5226.513 | 6.509 | .14E-05 | 0.00 | .64E-06 | 73.937 | .22E-05 | 83.072 |
| 77. | 5236.952 | 6.524 | .14E-05 | 0.00 | .62E-06 | 73.168 | .22E-05 | 82.792 |
| 78. | 5247.379 | 6.468 | .14E-05 | 0.00 | .58E-06 | 72.441 | .23E-05 | 82.534 |
| 79. | 5257.676 | 6.337 | .15E-05 | 0.00 | .55E-06 | 71.759 | .23E-05 | 82.299 |
| 80. | 5267.718 | 6.128 | .15E-05 | 0.00 | .51E-06 | 71.124 | .23E-05 | 82.087 |
| 81. | 5277.374 | 5.839 | .15E-05 | 0.00 | .47E-06 | 70.538 | .23E-05 | 81.897 |
| 82. | 5286.511 | 5.468 | .15E-05 | 0.00 | .43E-06 | 70.006 | .23E-05 | 81.730 |
| 83. | 5294.992 | 5.014 | .15E-05 | 0.00 | .39E-06 | 69.528 | .23E-05 | 81.584 |
| 84. | 5302.683 | 4.480 | .15E-05 | 0.00 | .34E-06 | 69.107 | .23E-05 | 81.459 |
| 85. | 5309.454 | 3.870 | .15E-05 | 0.00 | .29E-06 | 68.746 | .24E-05 | 81.355 |
| 86. | 5315.183 | 3.190 | .15E-05 | 0.00 | .23E-06 | 68.448 | .24E-05 | 81.271 |
| 87. | 5319.762 | 2.450 | .16E-05 | 0.00 | .19E-06 | 68.213 | .24E-05 | 81.206 |
| 88. | 5323.102 | 1.662 | .16E-05 | 0.00 | .12E-06 | 68.045 | .24E-05 | 81.160 |
| 89. | 5325.134 | .840 | .16E-05 | 0.00 | .60E-07 | 67.943 | .24E-05 | 81.133 |
| 90. | 5325.817 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .24E-05 | 81.124 |
| 91. | 5325.134 | -.840 | .16E-05 | 0.00 | .60E-07 | -112.057 | .24E-05 | 81.133 |
| 92. | 5323.102 | -1.662 | .16E-05 | 0.00 | .12E-06 | -111.955 | .24E-05 | 81.160 |
| 93. | 5319.762 | -2.450 | .16E-05 | 0.00 | .18E-06 | -111.787 | .24E-05 | 81.206 |
| 94. | 5315.183 | -3.190 | .15E-05 | 0.00 | .23E-06 | -111.552 | .24E-05 | 81.271 |
| 95. | 5309.454 | -3.870 | .15E-05 | 0.00 | .29E-06 | -111.254 | .24E-05 | 81.355 |
| 96. | 5302.683 | -4.480 | .15E-05 | 0.00 | .34E-06 | -110.893 | .23E-05 | 81.459 |
| 97. | 5294.992 | -5.014 | .15E-05 | 0.00 | .39E-06 | -110.472 | .23E-05 | 81.584 |
| 98. | 5286.511 | -5.468 | .15E-05 | 0.00 | .43E-06 | -109.994 | .23E-05 | 81.730 |
| 99. | 5277.374 | -5.839 | .15E-05 | 0.00 | .47E-06 | -109.462 | .23E-05 | 81.897 |

111-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5267.718 | -6.128 | .15E-05 | 0.00 | .51E-06 | -108.876 | .23E-05 | 82.087 |
| 101. | 5257.676 | -6.337 | .15E-05 | 0.00 | .55E-06 | -108.241 | .23E-05 | 82.299 |
| 102. | 5247.379 | -6.468 | .14E-05 | 0.00 | .58E-06 | -107.559 | .23E-05 | 82.534 |
| 103. | 5236.952 | -6.524 | .14E-05 | 0.00 | .62E-06 | -106.832 | .22E-05 | 82.792 |
| 104. | 5226.513 | -6.509 | .14E-05 | 0.00 | .64E-06 | -106.063 | .22E-05 | 83.072 |
| 105. | 5216.174 | -6.427 | .14E-05 | 0.00 | .67E-06 | -105.255 | .22E-05 | 83.376 |
| 106. | 5206.038 | -6.282 | .14E-05 | 0.00 | .69E-06 | -104.409 | .22E-05 | 83.701 |
| 107. | 5196.201 | -6.078 | .14E-05 | 0.00 | .71E-06 | -103.528 | .22E-05 | 84.048 |
| 108. | 5186.752 | -5.820 | .13E-05 | 0.00 | .73E-06 | -102.614 | .22E-05 | 84.416 |
| 109. | 5177.772 | -5.512 | .13E-05 | 0.00 | .75E-06 | -101.671 | .22E-05 | 84.804 |
| 110. | 5169.334 | -5.158 | .13E-05 | 0.00 | .76E-06 | -100.700 | .21E-05 | 85.211 |
| 111. | 5161.505 | -4.762 | .13E-05 | 0.00 | .78E-06 | -99.703 | .21E-05 | 85.635 |
| 112. | 5154.344 | -4.328 | .13E-05 | 0.00 | .79E-06 | -98.684 | .21E-05 | 86.077 |
| 113. | 5147.904 | -3.861 | .13E-05 | 0.00 | .80E-06 | -97.644 | .21E-05 | 86.533 |
| 114. | 5142.230 | -3.365 | .13E-05 | 0.00 | .81E-06 | -96.585 | .21E-05 | 87.002 |
| 115. | 5137.364 | -2.843 | .13E-05 | 0.00 | .81E-06 | -95.512 | .21E-05 | 87.484 |
| 116. | 5133.337 | -2.300 | .13E-05 | 0.00 | .82E-06 | -94.425 | .21E-05 | 87.975 |
| 117. | 5130.176 | -1.739 | .13E-05 | 0.00 | .82E-06 | -93.328 | .21E-05 | 88.474 |
| 118. | 5127.906 | -1.167 | .13E-05 | 0.00 | .83E-06 | -92.223 | .21E-05 | 88.979 |
| 119. | 5126.535 | -.586 | .13E-05 | 0.00 | .83E-06 | -91.113 | .21E-05 | 89.489 |
| 120. | 5126.075 | 0.000 | .13E-05 | 0.00 | .83E-06 | -90.000 | .21E-05 | 90.000 |
| 121. | 5126.533 | .585 | .13E-05 | 0.00 | .83E-06 | -88.887 | .21E-05 | 90.511 |
| 122. | 5127.901 | 1.167 | .13E-05 | 0.00 | .83E-06 | -87.777 | .21E-05 | 91.021 |
| 123. | 5130.173 | 1.739 | .13E-05 | 0.00 | .82E-06 | -86.672 | .21E-05 | 91.526 |
| 124. | 5133.333 | 2.299 | .13E-05 | 0.00 | .82E-06 | -85.575 | .21E-05 | 92.025 |
| 125. | 5137.361 | 2.843 | .13E-05 | 0.00 | .81E-06 | -84.488 | .21E-05 | 92.516 |
| 126. | 5142.227 | 3.365 | .13E-05 | 0.00 | .81E-06 | -83.415 | .21E-05 | 92.998 |
| 127. | 5147.901 | 3.861 | .13E-05 | 0.00 | .80E-06 | -82.356 | .21E-05 | 93.467 |
| 128. | 5154.342 | 4.328 | .13E-05 | 0.00 | .79E-06 | -81.316 | .21E-05 | 93.923 |
| 129. | 5161.503 | 4.762 | .13E-05 | 0.00 | .78E-06 | -80.297 | .21E-05 | 94.365 |
| 130. | 5169.332 | 5.158 | .13E-05 | 0.00 | .76E-06 | -79.300 | .21E-05 | 94.789 |
| 131. | 5177.771 | 5.512 | .13E-05 | 0.00 | .75E-06 | -78.329 | .22E-05 | 95.196 |
| 132. | 5186.751 | 5.820 | .13E-05 | 0.00 | .73E-06 | -77.386 | .22E-05 | 95.584 |
| 133. | 5196.200 | 6.078 | .14E-05 | 0.00 | .71E-06 | -76.472 | .22E-05 | 95.952 |
| 134. | 5206.037 | 6.282 | .14E-05 | 0.00 | .69E-06 | -75.591 | .22E-05 | 96.299 |
| 135. | 5216.173 | 6.427 | .14E-05 | 0.00 | .67E-06 | -74.745 | .22E-05 | 96.624 |
| 136. | 5226.512 | 6.509 | .14E-05 | 0.00 | .64E-06 | -73.937 | .22E-05 | 96.928 |
| 137. | 5236.951 | 6.524 | .14E-05 | 0.00 | .62E-06 | -73.168 | .22E-05 | 97.208 |
| 138. | 5247.378 | 6.468 | .14E-05 | 0.00 | .58E-06 | -72.441 | .23E-05 | 97.466 |
| 139. | 5257.675 | 6.337 | .15E-05 | 0.00 | .55E-06 | -71.759 | .23E-05 | 97.701 |
| 140. | 5267.717 | 6.128 | .15E-05 | 0.00 | .51E-06 | -71.124 | .23E-05 | 97.913 |
| 141. | 5277.373 | 5.839 | .15E-05 | 0.00 | .47E-06 | -70.539 | .23E-05 | 98.103 |
| 142. | 5286.510 | 5.468 | .15E-05 | 0.00 | .43E-06 | -70.006 | .23E-05 | 98.270 |
| 143. | 5294.991 | 5.014 | .15E-05 | 0.00 | .39E-06 | -69.528 | .23E-05 | 98.416 |
| 144. | 5302.682 | 4.480 | .15E-05 | 0.00 | .34E-06 | -69.107 | .23E-05 | 98.541 |
| 145. | 5309.453 | 3.870 | .15E-05 | 0.00 | .29E-06 | -68.746 | .24E-05 | 98.645 |
| 146. | 5315.182 | 3.190 | .15E-05 | 0.00 | .23E-06 | -68.448 | .24E-05 | 98.729 |
| 147. | 5319.762 | 2.450 | .16E-05 | 0.00 | .18E-06 | -68.213 | .24E-05 | 98.794 |
| 148. | 5323.102 | 1.662 | .16E-05 | 0.00 | .12E-06 | -68.045 | .24E-05 | 98.840 |
| 149. | 5325.134 | .840 | .16E-05 | 0.00 | .60E-07 | -67.943 | .24E-05 | 98.867 |

111-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5325.816 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .24E-05 | 98.876 |
| 151. | 5325.134 | -.840 | .16E-05 | 0.00 | .60E-07 | 112.057 | .24E-05 | 98.867 |
| 152. | 5323.102 | -1.662 | .16E-05 | 0.00 | .12E-06 | 111.955 | .24E-05 | 98.840 |
| 153. | 5319.762 | -2.450 | .16E-05 | 0.00 | .18E-06 | 111.787 | .24E-05 | 98.794 |
| 154. | 5315.182 | -3.190 | .15E-05 | 0.00 | .23E-06 | 111.552 | .24E-05 | 98.729 |
| 155. | 5309.453 | -3.870 | .15E-05 | 0.00 | .29E-06 | 111.254 | .24E-05 | 98.645 |
| 156. | 5302.682 | -4.480 | .15E-05 | 0.00 | .34E-06 | 110.893 | .23E-05 | 98.541 |
| 157. | 5294.991 | -5.014 | .15E-05 | 0.00 | .39E-06 | 110.472 | .23E-05 | 98.416 |
| 158. | 5286.510 | -5.468 | .15E-05 | 0.00 | .43E-06 | 109.994 | .23E-05 | 98.270 |
| 159. | 5277.374 | -5.839 | .15E-05 | 0.00 | .47E-06 | 109.462 | .23E-05 | 98.103 |
| 160. | 5267.717 | -6.128 | .15E-05 | 0.00 | .51E-06 | 108.876 | .23E-05 | 97.913 |
| 161. | 5257.675 | -6.337 | .15E-05 | 0.00 | .55E-06 | 108.241 | .23E-05 | 97.701 |
| 162. | 5247.379 | -6.468 | .14E-05 | 0.00 | .58E-06 | 107.559 | .23E-05 | 97.466 |
| 163. | 5236.952 | -6.524 | .14E-05 | 0.00 | .62E-06 | 106.832 | .22E-05 | 97.208 |
| 164. | 5226.513 | -6.509 | .14E-05 | 0.00 | .64E-06 | 106.063 | .22E-05 | 96.928 |
| 165. | 5216.173 | -6.427 | .14E-05 | 0.00 | .67E-06 | 105.255 | .22E-05 | 96.624 |
| 166. | 5206.037 | -6.282 | .14E-05 | 0.00 | .69E-06 | 104.409 | .22E-05 | 96.299 |
| 167. | 5196.201 | -6.078 | .14E-05 | 0.00 | .71E-06 | 103.528 | .22E-05 | 95.952 |
| 168. | 5186.752 | -5.820 | .13E-05 | 0.00 | .73E-06 | 102.614 | .22E-05 | 95.584 |
| 169. | 5177.771 | -5.512 | .13E-05 | 0.00 | .75E-06 | 101.671 | .22E-05 | 95.196 |
| 170. | 5169.333 | -5.158 | .13E-05 | 0.00 | .76E-06 | 100.700 | .21E-05 | 94.789 |
| 171. | 5161.504 | -4.762 | .13E-05 | 0.00 | .78E-06 | 99.703 | .21E-05 | 94.365 |
| 172. | 5154.343 | -4.328 | .13E-05 | 0.00 | .79E-06 | 98.684 | .21E-05 | 93.923 |
| 173. | 5147.902 | -3.861 | .13E-05 | 0.00 | .80E-06 | 97.644 | .21E-05 | 93.467 |
| 174. | 5142.229 | -3.365 | .13E-05 | 0.00 | .81E-06 | 96.585 | .21E-05 | 92.998 |
| 175. | 5137.362 | -2.843 | .13E-05 | 0.00 | .81E-06 | 95.512 | .21E-05 | 92.516 |
| 176. | 5133.335 | -2.299 | .13E-05 | 0.00 | .82E-06 | 94.425 | .21E-05 | 92.025 |
| 177. | 5130.174 | -1.739 | .13E-05 | 0.00 | .82E-06 | 93.328 | .21E-05 | 91.526 |
| 178. | 5127.902 | -1.167 | .13E-05 | 0.00 | .83E-06 | 92.223 | .21E-05 | 91.021 |
| 179. | 5126.533 | -.585 | .13E-05 | 0.00 | .83E-06 | 91.113 | .21E-05 | 90.511 |
| 180. | 5126.076 | 0.000 | .13E-05 | 0.00 | .83E-06 | 90.000 | .21E-05 | 90.000 |

110-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5045.931 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 1. | 5046.277 | .450 | .15E-05 | 0.00 | .56E-08 | 0.000 | .24E-05 | 90.000 |
| 2. | 5047.312 | .897 | .15E-05 | 0.00 | .11E-07 | 0.000 | .24E-05 | 90.000 |
| 3. | 5049.035 | 1.342 | .15E-05 | 0.00 | .17E-07 | 0.000 | .24E-05 | 90.000 |
| 4. | 5051.439 | 1.781 | .15E-05 | 0.00 | .23E-07 | 0.000 | .24E-05 | 90.000 |
| 5. | 5054.516 | 2.214 | .15E-05 | 0.00 | .29E-07 | 0.000 | .24E-05 | 90.000 |
| 6. | 5058.257 | 2.639 | .15E-05 | 0.00 | .35E-07 | 0.000 | .24E-05 | 90.000 |
| 7. | 5062.649 | 3.054 | .15E-05 | 0.00 | .41E-07 | 0.000 | .24E-05 | 90.000 |
| 8. | 5067.679 | 3.457 | .15E-05 | 0.00 | .47E-07 | 0.000 | .24E-05 | 90.000 |
| 9. | 5073.330 | 3.848 | .15E-05 | 0.00 | .54E-07 | 0.000 | .24E-05 | 90.000 |
| 10. | 5079.583 | 4.224 | .15E-05 | 0.00 | .61E-07 | 0.000 | .24E-05 | 90.000 |
| 11. | 5086.417 | 4.584 | .15E-05 | 0.00 | .68E-07 | 0.000 | .24E-05 | 90.000 |
| 12. | 5093.810 | 4.927 | .15E-05 | 0.00 | .75E-07 | 0.000 | .24E-05 | 90.000 |
| 13. | 5101.736 | 5.251 | .15E-05 | 0.00 | .83E-07 | 0.000 | .24E-05 | 90.000 |
| 14. | 5110.167 | 5.555 | .15E-05 | 0.00 | .90E-07 | 0.000 | .24E-05 | 90.000 |
| 15. | 5119.074 | 5.838 | .15E-05 | 0.00 | .99E-07 | 0.000 | .24E-05 | 90.000 |
| 16. | 5128.424 | 6.097 | .15E-05 | 0.00 | .11E-06 | 0.000 | .24E-05 | 90.000 |
| 17. | 5138.185 | 6.333 | .15E-05 | 0.00 | .12E-06 | 0.000 | .24E-05 | 90.000 |
| 18. | 5148.318 | 6.544 | .15E-05 | 0.00 | .13E-06 | 0.000 | .24E-05 | 90.000 |
| 19. | 5158.785 | 6.727 | .15E-05 | 0.00 | .14E-06 | 0.000 | .24E-05 | 90.000 |
| 20. | 5169.545 | 6.883 | .15E-05 | 0.00 | .15E-06 | 0.000 | .24E-05 | 90.000 |
| 21. | 5180.554 | 7.010 | .15E-05 | 0.00 | .16E-06 | 0.000 | .24E-05 | 90.000 |
| 22. | 5191.765 | 7.106 | .15E-05 | 0.00 | .17E-06 | 0.000 | .24E-05 | 90.000 |
| 23. | 5203.129 | 7.170 | .15E-05 | 0.00 | .18E-06 | 0.000 | .24E-05 | 90.000 |
| 24. | 5214.594 | 7.201 | .15E-05 | 0.00 | .19E-06 | 0.000 | .24E-05 | 90.000 |
| 25. | 5226.107 | 7.197 | .15E-05 | 0.00 | .20E-06 | 0.000 | .24E-05 | 90.000 |
| 26. | 5237.610 | 7.157 | .15E-05 | 0.00 | .21E-06 | 0.000 | .24E-05 | 90.000 |
| 27. | 5249.042 | 7.079 | .15E-05 | 0.00 | .23E-06 | 0.000 | .24E-05 | 90.000 |
| 28. | 5260.342 | 6.963 | .15E-05 | 0.00 | .24E-06 | 0.000 | .24E-05 | 90.000 |
| 29. | 5271.444 | 6.806 | .15E-05 | 0.00 | .25E-06 | 0.000 | .24E-05 | 90.000 |
| 30. | 5282.281 | 6.609 | .15E-05 | 0.00 | .26E-06 | 0.000 | .24E-05 | 90.000 |
| 31. | 5292.783 | 6.369 | .15E-05 | 0.00 | .27E-06 | 0.000 | .24E-05 | 90.000 |
| 32. | 5302.891 | 6.088 | .15E-05 | 0.00 | .27E-06 | 0.000 | .24E-05 | 90.000 |
| 33. | 5312.504 | 5.767 | .15E-05 | 0.00 | .28E-06 | 0.000 | .24E-05 | 90.000 |
| 34. | 5321.587 | 5.407 | .15E-05 | 0.00 | .28E-06 | 0.000 | .24E-05 | 90.000 |
| 35. | 5330.066 | 5.012 | .15E-05 | 0.00 | .29E-06 | 0.000 | .24E-05 | 90.000 |
| 36. | 5337.887 | 4.588 | .15E-05 | 0.00 | .29E-06 | 0.000 | .24E-05 | 90.000 |
| 37. | 5345.008 | 4.145 | .15E-05 | 0.00 | .28E-06 | 0.000 | .24E-05 | 90.000 |
| 38. | 5351.404 | 3.695 | .15E-05 | 0.00 | .27E-06 | 0.000 | .24E-05 | 90.000 |
| 39. | 5357.074 | 3.252 | .15E-05 | 0.00 | .26E-06 | 0.000 | .24E-05 | 90.000 |
| 40. | 5362.043 | 2.834 | .15E-05 | 0.00 | .25E-06 | 0.000 | .24E-05 | 90.000 |
| 41. | 5366.365 | 2.461 | .15E-05 | 0.00 | .23E-06 | 0.000 | .23E-05 | 90.000 |
| 42. | 5370.127 | 2.149 | .15E-05 | 0.00 | .21E-06 | 0.000 | .23E-05 | 90.000 |
| 43. | 5373.442 | 1.916 | .15E-05 | 0.00 | .19E-06 | 0.000 | .23E-05 | 90.000 |
| 44. | 5376.449 | 1.771 | .15E-05 | 0.00 | .17E-06 | 0.000 | .23E-05 | 90.000 |
| 45. | 5379.296 | 1.720 | .15E-05 | 0.00 | .15E-06 | 0.000 | .22E-05 | 90.000 |
| 46. | 5382.136 | 1.761 | .15E-05 | 0.00 | .14E-06 | 0.000 | .22E-05 | 90.000 |
| 47. | 5385.118 | 1.887 | .14E-05 | 0.00 | .12E-06 | 0.000 | .22E-05 | 90.000 |
| 48. | 5388.371 | 2.088 | .14E-05 | 0.00 | .12E-06 | 0.000 | .22E-05 | 90.000 |
| 49. | 5392.008 | 2.348 | .14E-05 | 0.00 | .11E-06 | 0.000 | .22E-05 | 90.000 |

110-CUT MAGNESIUM OXIDE

| | WWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5396.112 | 2.651 | .14E-05 | 0.00 | .11E-06 | 0.000 | .22E-05 | 90.000 |
| 51. | 5400.743 | 2.980 | .15E-05 | 0.00 | .12E-06 | 0.000 | .22E-05 | 90.000 |
| 52. | 5405.932 | 3.320 | .15E-05 | 0.00 | .12E-06 | 0.000 | .22E-05 | 90.000 |
| 53. | 5411.688 | 3.657 | .15E-05 | 0.00 | .14E-06 | 0.000 | .22E-05 | 90.000 |
| 54. | 5417.996 | 3.978 | .15E-05 | 0.00 | .16E-06 | 0.000 | .22E-05 | 90.000 |
| 55. | 5424.825 | 4.273 | .15E-05 | 0.00 | .18E-06 | 0.000 | .22E-05 | 90.000 |
| 56. | 5432.127 | 4.535 | .15E-05 | 0.00 | .20E-06 | 0.000 | .22E-05 | 90.000 |
| 57. | 5439.844 | 4.759 | .15E-05 | 0.00 | .22E-06 | 0.000 | .22E-05 | 90.000 |
| 58. | 5447.913 | 4.942 | .16E-05 | 0.00 | .25E-06 | 0.000 | .22E-05 | 90.000 |
| 59. | 5456.265 | 5.083 | .16E-05 | 0.00 | .27E-06 | 0.000 | .22E-05 | 90.000 |
| 60. | 5464.832 | 5.183 | .16E-05 | 0.00 | .29E-06 | 0.000 | .22E-05 | 90.000 |
| 61. | 5473.545 | 5.242 | .16E-05 | 0.00 | .32E-06 | 0.000 | .23E-05 | 90.000 |
| 62. | 5482.342 | 5.266 | .17E-05 | 0.00 | .34E-06 | 0.000 | .23E-05 | 90.000 |
| 63. | 5491.163 | 5.255 | .17E-05 | 0.00 | .35E-06 | 0.000 | .23E-05 | 90.000 |
| 64. | 5499.955 | 5.214 | .17E-05 | 0.00 | .37E-06 | 0.000 | .23E-05 | 90.000 |
| 65. | 5508.668 | 5.147 | .18E-05 | 0.00 | .38E-06 | 0.000 | .23E-05 | 90.000 |
| 66. | 5517.261 | 5.055 | .18E-05 | 0.00 | .39E-06 | 0.000 | .23E-05 | 90.000 |
| 67. | 5525.694 | 4.944 | .18E-05 | 0.00 | .40E-06 | 0.000 | .23E-05 | 90.000 |
| 68. | 5533.934 | 4.814 | .18E-05 | 0.00 | .40E-06 | 0.000 | .24E-05 | 90.000 |
| 69. | 5541.952 | 4.668 | .19E-05 | 0.00 | .40E-06 | 0.000 | .24E-05 | 90.000 |
| 70. | 5549.721 | 4.509 | .19E-05 | 0.00 | .40E-06 | 0.000 | .24E-05 | 90.000 |
| 71. | 5557.220 | 4.337 | .19E-05 | 0.00 | .39E-06 | 0.000 | .24E-05 | 90.000 |
| 72. | 5564.428 | 4.156 | .19E-05 | 0.00 | .38E-06 | 0.000 | .24E-05 | 90.000 |
| 73. | 5571.328 | 3.965 | .19E-05 | 0.00 | .37E-06 | 0.000 | .24E-05 | 90.000 |
| 74. | 5577.903 | 3.766 | .20E-05 | 0.00 | .36E-06 | 0.000 | .24E-05 | 90.000 |
| 75. | 5584.139 | 3.560 | .20E-05 | 0.00 | .35E-06 | 0.000 | .24E-05 | 90.000 |
| 76. | 5590.025 | 3.347 | .20E-05 | 0.00 | .33E-06 | 0.000 | .24E-05 | 90.000 |
| 77. | 5595.548 | 3.129 | .20E-05 | 0.00 | .31E-06 | 0.000 | .24E-05 | 90.000 |
| 78. | 5600.700 | 2.906 | .20E-05 | 0.00 | .29E-06 | 0.000 | .24E-05 | 90.000 |
| 79. | 5605.470 | 2.678 | .20E-05 | 0.00 | .27E-06 | 0.000 | .24E-05 | 90.000 |
| 80. | 5609.850 | 2.447 | .20E-05 | 0.00 | .25E-06 | 0.000 | .24E-05 | 90.000 |
| 81. | 5613.835 | 2.212 | .20E-05 | 0.00 | .23E-06 | 0.000 | .24E-05 | 90.000 |
| 82. | 5617.416 | 1.973 | .21E-05 | 0.00 | .21E-06 | 0.000 | .25E-05 | 90.000 |
| 83. | 5620.589 | 1.732 | .21E-05 | 0.00 | .18E-06 | 0.000 | .25E-05 | 90.000 |
| 84. | 5623.348 | 1.489 | .21E-05 | 0.00 | .16E-06 | 0.000 | .25E-05 | 90.000 |
| 85. | 5625.690 | 1.244 | .21E-05 | 0.00 | .13E-06 | 0.000 | .25E-05 | 90.000 |
| 86. | 5627.611 | .997 | .21E-05 | 0.00 | .11E-06 | 0.000 | .25E-05 | 90.000 |
| 87. | 5629.108 | .749 | .21E-05 | 0.00 | .80E-07 | 0.000 | .25E-05 | 90.000 |
| 88. | 5630.179 | .500 | .21E-05 | 0.00 | .54E-07 | 0.000 | .25E-05 | 90.000 |
| 89. | 5630.822 | .250 | .21E-05 | 0.00 | .27E-07 | 0.000 | .25E-05 | 90.000 |
| 90. | 5631.036 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 91. | 5630.822 | -.250 | .21E-05 | 0.00 | .27E-07 | -180.000 | .25E-05 | 90.000 |
| 92. | 5630.179 | -.500 | .21E-05 | 0.00 | .54E-07 | 180.000 | .25E-05 | 90.000 |
| 93. | 5629.108 | -.749 | .21E-05 | 0.00 | .80E-07 | 180.000 | .25E-05 | 90.000 |
| 94. | 5627.611 | -.997 | .21E-05 | 0.00 | .11E-06 | 180.000 | .25E-05 | 90.000 |
| 95. | 5625.690 | -1.244 | .21E-05 | 0.00 | .13E-06 | 180.000 | .25E-05 | 90.000 |
| 96. | 5623.348 | -1.489 | .21E-05 | 0.00 | .16E-06 | -180.000 | .25E-05 | 90.000 |
| 97. | 5620.589 | -1.732 | .21E-05 | 0.00 | .18E-06 | 180.000 | .25E-05 | 90.000 |
| 98. | 5617.416 | -1.973 | .21E-05 | 0.00 | .21E-06 | -180.000 | .25E-05 | 90.000 |
| 99. | 5613.835 | -2.212 | .20E-05 | 0.00 | .23E-06 | 180.000 | .24E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5609.850 | -2.447 | .20E-05 | 0.00 | .25E-06 | 180.000 | .24E-05 | 90.000 |
| 101. | 5605.470 | -2.678 | .20E-05 | 0.00 | .27E-06 | -180.000 | .24E-05 | 90.000 |
| 102. | 5600.700 | -2.906 | .20E-05 | 0.00 | .29E-06 | 180.000 | .24E-05 | 90.000 |
| 103. | 5595.548 | -3.129 | .20E-05 | 0.00 | .31E-06 | 180.000 | .24E-05 | 90.000 |
| 104. | 5590.025 | -3.347 | .20E-05 | 0.00 | .33E-06 | 180.000 | .24E-05 | 90.000 |
| 105. | 5584.139 | -3.560 | .20E-05 | 0.00 | .35E-06 | 180.000 | .24E-05 | 90.000 |
| 106. | 5577.903 | -3.766 | .20E-05 | 0.00 | .36E-06 | 180.000 | .24E-05 | 90.000 |
| 107. | 5571.328 | -3.965 | .19E-05 | 0.00 | .37E-06 | 180.000 | .24E-05 | 90.000 |
| 108. | 5564.428 | -4.156 | .19E-05 | 0.00 | .38E-06 | -180.000 | .24E-05 | 90.000 |
| 109. | 5557.220 | -4.337 | .19E-05 | 0.00 | .39E-06 | 180.000 | .24E-05 | 90.000 |
| 110. | 5549.721 | -4.509 | .19E-05 | 0.00 | .40E-06 | 180.000 | .24E-05 | 90.000 |
| 111. | 5541.952 | -4.668 | .19E-05 | 0.00 | .40E-06 | -180.000 | .24E-05 | 90.000 |
| 112. | 5533.934 | -4.814 | .18E-05 | 0.00 | .40E-06 | 180.000 | .24E-05 | 90.000 |
| 113. | 5525.694 | -4.944 | .18E-05 | 0.00 | .40E-06 | -180.000 | .23E-05 | 90.000 |
| 114. | 5517.261 | -5.055 | .18E-05 | 0.00 | .39E-06 | 180.000 | .23E-05 | 90.000 |
| 115. | 5508.668 | -5.147 | .18E-05 | 0.00 | .38E-06 | 180.000 | .23E-05 | 90.000 |
| 116. | 5499.955 | -5.214 | .17E-05 | 0.00 | .37E-06 | 180.000 | .23E-05 | 90.000 |
| 117. | 5491.163 | -5.255 | .17E-05 | 0.00 | .35E-06 | -180.000 | .23E-05 | 90.000 |
| 118. | 5482.342 | -5.266 | .17E-05 | 0.00 | .34E-06 | 180.000 | .23E-05 | 90.000 |
| 119. | 5473.545 | -5.242 | .16E-05 | 0.00 | .32E-06 | 180.000 | .23E-05 | 90.000 |
| 120. | 5464.832 | -5.183 | .16E-05 | 0.00 | .29E-06 | -180.000 | .22E-05 | 90.000 |
| 121. | 5456.265 | -5.083 | .16E-05 | 0.00 | .27E-06 | -180.000 | .22E-05 | 90.000 |
| 122. | 5447.913 | -4.942 | .16E-05 | 0.00 | .25E-06 | 180.000 | .22E-05 | 90.000 |
| 123. | 5439.844 | -4.759 | .15E-05 | 0.00 | .22E-06 | -180.000 | .22E-05 | 90.000 |
| 124. | 5432.127 | -4.535 | .15E-05 | 0.00 | .20E-06 | -180.000 | .22E-05 | 90.000 |
| 125. | 5424.825 | -4.273 | .15E-05 | 0.00 | .18E-06 | -180.000 | .22E-05 | 90.000 |
| 126. | 5417.996 | -3.978 | .15E-05 | 0.00 | .16E-06 | -180.000 | .22E-05 | 90.000 |
| 127. | 5411.688 | -3.657 | .15E-05 | 0.00 | .14E-06 | -180.000 | .22E-05 | 90.000 |
| 128. | 5405.932 | -3.320 | .15E-05 | 0.00 | .12E-06 | -180.000 | .22E-05 | 90.000 |
| 129. | 5400.743 | -2.980 | .15E-05 | 0.00 | .12E-06 | -180.000 | .22E-05 | 90.000 |
| 130. | 5396.112 | -2.651 | .14E-05 | 0.00 | .11E-06 | -180.000 | .22E-05 | 90.000 |
| 131. | 5392.008 | -2.348 | .14E-05 | 0.00 | .11E-06 | 180.000 | .22E-05 | 90.000 |
| 132. | 5388.371 | -2.088 | .14E-05 | 0.00 | .12E-06 | -180.000 | .22E-05 | 90.000 |
| 133. | 5385.118 | -1.887 | .14E-05 | 0.00 | .12E-06 | -180.000 | .22E-05 | 90.000 |
| 134. | 5382.136 | -1.761 | .15E-05 | 0.00 | .14E-06 | -180.000 | .22E-05 | 90.000 |
| 135. | 5379.296 | -1.720 | .15E-05 | 0.00 | .15E-06 | -180.000 | .22E-05 | 90.000 |
| 136. | 5376.449 | -1.771 | .15E-05 | 0.00 | .17E-06 | -180.000 | .23E-05 | 90.000 |
| 137. | 5373.442 | -1.916 | .15E-05 | 0.00 | .19E-06 | 180.000 | .23E-05 | 90.000 |
| 138. | 5370.127 | -2.149 | .15E-05 | 0.00 | .21E-06 | 180.000 | .23E-05 | 90.000 |
| 139. | 5366.365 | -2.461 | .15E-05 | 0.00 | .23E-06 | -180.000 | .23E-05 | 90.000 |
| 140. | 5362.043 | -2.834 | .15E-05 | 0.00 | .25E-06 | -180.000 | .24E-05 | 90.000 |
| 141. | 5357.074 | -3.252 | .15E-05 | 0.00 | .26E-06 | 180.000 | .24E-05 | 90.000 |
| 142. | 5351.404 | -3.695 | .15E-05 | 0.00 | .27E-06 | -180.000 | .24E-05 | 90.000 |
| 143. | 5345.008 | -4.145 | .15E-05 | 0.00 | .28E-06 | 180.000 | .24E-05 | 90.000 |
| 144. | 5337.887 | -4.588 | .15E-05 | 0.00 | .29E-06 | 180.000 | .24E-05 | 90.000 |
| 145. | 5330.066 | -5.012 | .15E-05 | 0.00 | .29E-06 | 180.000 | .24E-05 | 90.000 |
| 146. | 5321.587 | -5.407 | .15E-05 | 0.00 | .28E-06 | 180.000 | .24E-05 | 90.000 |
| 147. | 5312.504 | -5.767 | .15E-05 | 0.00 | .28E-06 | -180.000 | .24E-05 | 90.000 |
| 148. | 5302.881 | -6.088 | .15E-05 | 0.00 | .27E-06 | -180.000 | .24E-05 | 90.000 |
| 149. | 5292.783 | -6.369 | .15E-05 | 0.00 | .27E-06 | 180.000 | .24E-05 | 90.000 |

110-CUT MAGNESIUM OXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5282.281 | -6.609 | .15E-05 | 0.00 | .26E-06 | 180.000 | .24E-05 | 90.000 |
| 151. | 5271.444 | -6.806 | .15E-05 | 0.00 | .25E-06 | 180.000 | .24E-05 | 90.000 |
| 152. | 5260.342 | -6.963 | .15E-05 | 0.00 | .24E-06 | 180.000 | .24E-05 | 90.000 |
| 153. | 5249.042 | -7.079 | .15E-05 | 0.00 | .23E-06 | 180.000 | .24E-05 | 90.000 |
| 154. | 5237.610 | -7.157 | .15E-05 | 0.00 | .21E-06 | 180.000 | .24E-05 | 90.000 |
| 155. | 5226.107 | -7.197 | .15E-05 | 0.00 | .20E-06 | 180.000 | .24E-05 | 90.000 |
| 156. | 5214.594 | -7.201 | .15E-05 | 0.00 | .19E-06 | 180.000 | .24E-05 | 90.000 |
| 157. | 5203.129 | -7.170 | .15E-05 | 0.00 | .18E-06 | 180.000 | .24E-05 | 90.000 |
| 158. | 5191.765 | -7.106 | .15E-05 | 0.00 | .17E-06 | 180.000 | .24E-05 | 90.000 |
| 159. | 5180.554 | -7.010 | .15E-05 | 0.00 | .16E-06 | 180.000 | .24E-05 | 90.000 |
| 160. | 5169.545 | -6.883 | .15E-05 | 0.00 | .15E-06 | 180.000 | .24E-05 | 90.000 |
| 161. | 5158.785 | -6.727 | .15E-05 | 0.00 | .14E-06 | 180.000 | .24E-05 | 90.000 |
| 162. | 5148.318 | -6.544 | .15E-05 | 0.00 | .13E-06 | 180.000 | .24E-05 | 90.000 |
| 163. | 5138.185 | -6.333 | .15E-05 | 0.00 | .12E-06 | 180.000 | .24E-05 | 90.000 |
| 164. | 5128.424 | -6.097 | .15E-05 | 0.00 | .11E-06 | 180.000 | .24E-05 | 90.000 |
| 165. | 5119.074 | -5.838 | .15E-05 | 0.00 | .99E-07 | 180.000 | .24E-05 | 90.000 |
| 166. | 5110.167 | -5.555 | .15E-05 | 0.00 | .90E-07 | 180.000 | .24E-05 | 90.000 |
| 167. | 5101.736 | -5.251 | .15E-05 | 0.00 | .83E-07 | 180.000 | .24E-05 | 90.000 |
| 168. | 5093.810 | -4.927 | .15E-05 | 0.00 | .75E-07 | 180.000 | .24E-05 | 90.000 |
| 169. | 5086.417 | -4.584 | .15E-05 | 0.00 | .68E-07 | 180.000 | .24E-05 | 90.000 |
| 170. | 5079.583 | -4.224 | .15E-05 | 0.00 | .61E-07 | 180.000 | .24E-05 | 90.000 |
| 171. | 5073.330 | -3.848 | .15E-05 | 0.00 | .54E-07 | 180.000 | .24E-05 | 90.000 |
| 172. | 5067.679 | -3.457 | .15E-05 | 0.00 | .47E-07 | 180.000 | .24E-05 | 90.000 |
| 173. | 5062.649 | -3.054 | .15E-05 | 0.00 | .41E-07 | 180.000 | .24E-05 | 90.000 |
| 174. | 5058.257 | -2.639 | .15E-05 | 0.00 | .35E-07 | 180.000 | .24E-05 | 90.000 |
| 175. | 5054.516 | -2.214 | .15E-05 | 0.00 | .29E-07 | 180.000 | .24E-05 | 90.000 |
| 176. | 5051.439 | -1.781 | .15E-05 | 0.00 | .23E-07 | 180.000 | .24E-05 | 90.000 |
| 177. | 5049.035 | -1.342 | .15E-05 | 0.00 | .17E-07 | 180.000 | .24E-05 | 90.000 |
| 178. | 5047.312 | -.897 | .15E-05 | 0.00 | .11E-07 | 180.000 | .24E-05 | 90.000 |
| 179. | 5046.277 | -.450 | .15E-05 | 0.00 | .56E-08 | 180.000 | .24E-05 | 90.000 |
| 180. | 5045.931 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |

X-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3267.580 | -8.046 | .37E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .954E+04 | -90.000 | 3263.962 | -8.081 | .00111 |
| 1. | 3259.699 | -7.706 | .37E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .959E+04 | -90.000 | 3256.059 | -7.735 | .00112 |
| 2. | 3252.184 | -7.360 | .36E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .962E+04 | -90.000 | 3248.526 | -7.382 | .00112 |
| 3. | 3245.037 | -7.009 | .36E-05 | 0.00 | .12E-05 | 180.000 | .49E-05 | 90.000 | .965E+04 | -90.000 | 3241.368 | -7.025 | .00113 |
| 4. | 3238.257 | -6.656 | .35E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .966E+04 | -90.000 | 3234.583 | -6.665 | .00113 |
| 5. | 3231.845 | -6.302 | .35E-05 | 0.00 | .12E-05 | 180.000 | .49E-05 | 90.000 | .967E+04 | -90.000 | 3228.173 | -6.304 | .00114 |
| 6. | 3225.797 | -5.949 | .35E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .967E+04 | -90.000 | 3222.133 | -5.944 | .00114 |
| 7. | 3220.109 | -5.599 | .34E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .966E+04 | -90.000 | 3216.460 | -5.587 | .00113 |
| 8. | 3214.775 | -5.254 | .34E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .963E+04 | -90.000 | 3211.148 | -5.234 | .00113 |
| 9. | 3209.787 | -4.916 | .33E-05 | 0.00 | .12E-05 | 180.000 | .49E-05 | 90.000 | .960E+04 | -90.000 | 3206.189 | -4.888 | .00112 |
| 10. | 3205.135 | -4.586 | .33E-05 | 0.00 | .12E-05 | 180.000 | .49E-05 | 90.000 | .956E+04 | -90.000 | 3201.574 | -4.551 | .00111 |
| 11. | 3200.809 | -4.267 | .32E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .951E+04 | -90.000 | 3197.290 | -4.224 | .00110 |
| 12. | 3196.795 | -3.959 | .32E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .945E+04 | -90.000 | 3193.327 | -3.909 | .00108 |
| 13. | 3193.080 | -3.665 | .31E-05 | 0.00 | .11E-05 | -180.000 | .49E-05 | 90.000 | .937E+04 | -90.000 | 3189.670 | -3.607 | .00107 |
| 14. | 3189.650 | -3.385 | .31E-05 | 0.00 | .11E-05 | -180.000 | .49E-05 | 90.000 | .929E+04 | -90.000 | 3186.304 | -3.319 | .00105 |
| 15. | 3186.490 | -3.119 | .30E-05 | 0.00 | .11E-05 | -180.000 | .49E-05 | 90.000 | .919E+04 | -90.000 | 3183.216 | -3.045 | .00103 |
| 16. | 3183.585 | -2.867 | .30E-05 | 0.00 | .10E-05 | -180.000 | .49E-05 | 90.000 | .909E+04 | -90.000 | 3180.389 | -2.786 | .00100 |
| 17. | 3180.920 | -2.628 | .30E-05 | 0.00 | .98E-06 | -180.000 | .49E-05 | 90.000 | .897E+04 | -90.000 | 3177.809 | -2.539 | .00098 |
| 18. | 3178.484 | -2.400 | .29E-05 | 0.00 | .94E-06 | -180.000 | .49E-05 | 90.000 | .884E+04 | -90.000 | 3175.465 | -2.305 | .00095 |
| 19. | 3176.266 | -2.181 | .29E-05 | 0.00 | .89E-06 | 180.000 | .49E-05 | 90.000 | .869E+04 | -90.000 | 3173.345 | -2.079 | .00092 |
| 20. | 3174.259 | -1.967 | .28E-05 | 0.00 | .84E-06 | -180.000 | .49E-05 | 90.000 | .854E+04 | -90.000 | 3171.442 | -1.859 | .00089 |
| 21. | 3172.460 | -1.754 | .28E-05 | 0.00 | .78E-06 | 180.000 | .49E-05 | 90.000 | .838E+04 | -90.000 | 3169.751 | -1.640 | .00085 |
| 22. | 3170.870 | -1.536 | .27E-05 | 0.00 | .72E-06 | 180.000 | .49E-05 | 90.000 | .820E+04 | -90.000 | 3168.274 | -1.418 | .00082 |
| 23. | 3169.495 | -1.309 | .27E-05 | 0.00 | .66E-06 | -180.000 | .48E-05 | 90.000 | .802E+04 | -90.000 | 3167.016 | -1.187 | .00078 |
| 24. | 3168.347 | -1.066 | .27E-05 | 0.00 | .60E-06 | 180.000 | .48E-05 | 90.000 | .782E+04 | -90.000 | 3165.988 | -.942 | .00074 |
| 25. | 3167.444 | -.802 | .26E-05 | 0.00 | .53E-06 | -180.000 | .48E-05 | 90.000 | .762E+04 | -90.000 | 3165.206 | -.676 | .00071 |
| 26. | 3166.808 | -.512 | .26E-05 | 0.00 | .46E-06 | -180.000 | .48E-05 | 90.000 | .741E+04 | -90.000 | 3164.692 | -.386 | .00067 |
| 27. | 3166.465 | -.192 | .26E-05 | 0.00 | .39E-06 | -180.000 | .48E-05 | 90.000 | .719E+04 | -90.000 | 3164.471 | -.066 | .00063 |
| 28. | 3166.447 | .161 | .25E-05 | 0.00 | .32E-06 | 180.000 | .48E-05 | 90.000 | .697E+04 | -90.000 | 3164.574 | .286 | .00059 |
| 29. | 3166.787 | .550 | .25E-05 | 0.00 | .24E-06 | 180.000 | .48E-05 | 90.000 | .674E+04 | -90.000 | 3165.033 | .672 | .00055 |
| 30. | 3167.519 | .974 | .25E-05 | 0.00 | .17E-06 | 180.000 | .48E-05 | 90.000 | .651E+04 | -90.000 | 3165.881 | 1.093 | .00052 |
| 31. | 3168.677 | 1.432 | .25E-05 | 0.00 | .97E-07 | 180.000 | .48E-05 | 90.000 | .628E+04 | -90.000 | 3167.152 | 1.548 | .00048 |
| 32. | 3170.295 | 1.922 | .24E-05 | 0.00 | .24E-07 | 180.000 | .48E-05 | 90.000 | .605E+04 | -90.000 | 3168.878 | 2.034 | .00045 |
| 33. | 3172.401 | 2.441 | .24E-05 | 0.00 | .48E-07 | 0.000 | .47E-05 | 90.000 | .582E+04 | -90.000 | 3171.089 | 2.548 | .00041 |
| 34. | 3175.024 | 2.983 | .24E-05 | 0.00 | .12E-06 | 0.000 | .47E-05 | 90.000 | .559E+04 | -90.000 | 3173.811 | 3.085 | .00038 |
| 35. | 3178.184 | 3.544 | .24E-05 | 0.00 | .19E-06 | 0.000 | .47E-05 | 90.000 | .537E+04 | -90.000 | 3177.067 | 3.641 | .00035 |
| 36. | 3181.900 | 4.117 | .24E-05 | 0.00 | .26E-06 | 0.000 | .47E-05 | 90.000 | .514E+04 | -90.000 | 3180.872 | 4.209 | .00032 |
| 37. | 3186.183 | 4.698 | .24E-05 | 0.00 | .32E-06 | 0.000 | .47E-05 | 90.000 | .492E+04 | -90.000 | 3185.241 | 4.784 | .00030 |
| 38. | 3191.041 | 5.280 | .24E-05 | 0.00 | .39E-06 | 0.000 | .47E-05 | 90.000 | .470E+04 | -90.000 | 3190.180 | 5.361 | .00027 |
| 39. | 3196.476 | 5.858 | .24E-05 | 0.00 | .45E-06 | 0.000 | .47E-05 | 90.000 | .448E+04 | -90.000 | 3195.692 | 5.935 | .00025 |
| 40. | 3202.487 | 6.428 | .24E-05 | 0.00 | .51E-06 | 0.000 | .48E-05 | 90.000 | .427E+04 | -90.000 | 3201.775 | 6.500 | .00022 |
| 41. | 3209.068 | 6.985 | .24E-05 | 0.00 | .57E-06 | 0.000 | .48E-05 | 90.000 | .406E+04 | -90.000 | 3208.423 | 7.052 | .00020 |
| 42. | 3216.207 | 7.525 | .25E-05 | 0.00 | .63E-06 | 0.000 | .48E-05 | 90.000 | .384E+04 | -90.000 | 3215.626 | 7.588 | .00018 |
| 43. | 3223.893 | 8.046 | .25E-05 | 0.00 | .68E-06 | 0.000 | .48E-05 | 90.000 | .364E+04 | -90.000 | 3223.372 | 8.105 | .00016 |
| 44. | 3232.109 | 8.544 | .25E-05 | 0.00 | .73E-06 | 0.000 | .48E-05 | 90.000 | .343E+04 | -90.000 | 3231.644 | 8.599 | .00014 |
| 45. | 3240.837 | 9.019 | .25E-05 | 0.00 | .78E-06 | 0.000 | .48E-05 | 90.000 | .323E+04 | -90.000 | 3240.424 | 9.070 | .00013 |
| 46. | 3250.058 | 9.468 | .25E-05 | 0.00 | .82E-06 | 0.000 | .48E-05 | 90.000 | .303E+04 | -90.000 | 3249.694 | 9.516 | .00011 |
| 47. | 3259.750 | 9.891 | .26E-05 | 0.00 | .86E-06 | 0.000 | .48E-05 | 90.000 | .283E+04 | -90.000 | 3259.432 | 9.935 | .00010 |
| 48. | 3269.891 | 10.287 | .26E-05 | 0.00 | .90E-06 | 0.000 | .48E-05 | 90.000 | .263E+04 | -90.000 | 3269.614 | 10.327 | .00008 |
| 49. | 3280.458 | 10.655 | .26E-05 | 0.00 | .94E-06 | 0.000 | .48E-05 | 90.000 | .243E+04 | -90.000 | 3280.220 | 10.691 | .00007 |

X-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3291.426 | 10.995 | .27E-05 | 0.00 | .97E-06 | 0.000 | .49E-05 | 90.000 | .224E+04 | -90.000 | 3291.223 | 11.028 | .00006 |
| 51. | 3302.772 | 11.308 | .27E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .205E+04 | -90.000 | 3302.602 | 11.338 | .00005 |
| 52. | 3314.471 | 11.594 | .27E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .187E+04 | -90.000 | 3314.330 | 11.620 | .00004 |
| 53. | 3326.500 | 11.852 | .27E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .168E+04 | -90.000 | 3326.384 | 11.876 | .00003 |
| 54. | 3338.832 | 12.085 | .28E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .150E+04 | -90.000 | 3338.740 | 12.106 | .00003 |
| 55. | 3351.445 | 12.291 | .28E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .132E+04 | -90.000 | 3351.373 | 12.309 | .00002 |
| 56. | 3364.313 | 12.473 | .28E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .115E+04 | -90.000 | 3364.259 | 12.488 | .00002 |
| 57. | 3377.414 | 12.630 | .29E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .976E+03 | -90.000 | 3377.374 | 12.642 | .00001 |
| 58. | 3390.722 | 12.763 | .29E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .808E+03 | -90.000 | 3390.695 | 12.773 | .00001 |
| 59. | 3404.215 | 12.872 | .29E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .644E+03 | -90.000 | 3404.197 | 12.880 | .00001 |
| 60. | 3417.869 | 12.959 | .30E-05 | 0.00 | .12E-05 | 0.000 | .49E-05 | 90.000 | .484E+03 | -90.000 | 3417.859 | 12.965 | 0.00000 |
| 61. | 3431.661 | 13.024 | .30E-05 | 0.00 | .12E-05 | 0.000 | .49E-05 | 90.000 | .328E+03 | -90.000 | 3431.656 | 13.028 | 0.00000 |
| 62. | 3445.569 | 13.067 | .30E-05 | 0.00 | .12E-05 | 0.000 | .49E-05 | 90.000 | .176E+03 | -90.000 | 3445.567 | 13.069 | 0.00000 |
| 63. | 3459.569 | 13.089 | .31E-05 | 0.00 | .12E-05 | 0.000 | .49E-05 | 90.000 | .285E+02 | -90.000 | 3459.569 | 13.090 | 0.00000 |
| 64. | 3473.640 | 13.092 | .31E-05 | 0.00 | .12E-05 | 0.000 | .49E-05 | 90.000 | .115E+03 | 90.000 | 3473.639 | 13.090 | 0.00000 |
| 65. | 3487.760 | 13.074 | .31E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .253E+03 | 90.000 | 3487.757 | 13.072 | 0.00000 |
| 66. | 3501.906 | 13.037 | .31E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .387E+03 | 90.000 | 3501.899 | 13.034 | 0.00000 |
| 67. | 3516.058 | 12.982 | .32E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .516E+03 | 90.000 | 3516.046 | 12.977 | 0.00000 |
| 68. | 3530.193 | 12.908 | .32E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .640E+03 | 90.000 | 3530.176 | 12.902 | 0.00000 |
| 69. | 3544.292 | 12.817 | .32E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .760E+03 | 90.000 | 3544.267 | 12.810 | .00001 |
| 70. | 3558.333 | 12.708 | .32E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .874E+03 | 90.000 | 3558.299 | 12.700 | .00001 |
| 71. | 3572.295 | 12.582 | .33E-05 | 0.00 | .11E-05 | 0.000 | .49E-05 | 90.000 | .983E+03 | 90.000 | 3572.252 | 12.574 | .00001 |
| 72. | 3586.158 | 12.439 | .33E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .109E+04 | 90.000 | 3586.106 | 12.431 | .00001 |
| 73. | 3599.901 | 12.281 | .33E-05 | 0.00 | .10E-05 | 0.000 | .49E-05 | 90.000 | .119E+04 | 90.000 | 3599.839 | 12.272 | .00002 |
| 74. | 3613.505 | 12.106 | .34E-05 | 0.00 | .99E-06 | 0.000 | .49E-05 | 90.000 | .128E+04 | 90.000 | 3613.432 | 12.097 | .00002 |
| 75. | 3626.949 | 11.915 | .34E-05 | 0.00 | .97E-06 | 0.000 | .49E-05 | 90.000 | .137E+04 | 90.000 | 3626.865 | 11.906 | .00002 |
| 76. | 3640.213 | 11.709 | .34E-05 | 0.00 | .94E-06 | 0.000 | .49E-05 | 90.000 | .145E+04 | 90.000 | 3640.119 | 11.700 | .00003 |
| 77. | 3653.278 | 11.488 | .34E-05 | 0.00 | .92E-06 | 0.000 | .49E-05 | 90.000 | .153E+04 | 90.000 | 3653.173 | 11.479 | .00003 |
| 78. | 3666.124 | 11.252 | .34E-05 | 0.00 | .89E-06 | 0.000 | .49E-05 | 90.000 | .161E+04 | 90.000 | 3666.008 | 11.243 | .00003 |
| 79. | 3678.730 | 11.000 | .35E-05 | 0.00 | .86E-06 | 0.000 | .49E-05 | 90.000 | .167E+04 | 90.000 | 3678.604 | 10.991 | .00003 |
| 80. | 3691.078 | 10.734 | .35E-05 | 0.00 | .82E-06 | 0.000 | .48E-05 | 90.000 | .174E+04 | 90.000 | 3690.941 | 10.725 | .00004 |
| 81. | 3703.147 | 10.452 | .35E-05 | 0.00 | .79E-06 | 0.000 | .48E-05 | 90.000 | .180E+04 | 90.000 | 3703.000 | 10.444 | .00004 |
| 82. | 3714.918 | 10.156 | .35E-05 | 0.00 | .76E-06 | 0.000 | .48E-05 | 90.000 | .185E+04 | 90.000 | 3714.761 | 10.148 | .00004 |
| 83. | 3726.369 | 9.844 | .35E-05 | 0.00 | .72E-06 | 0.000 | .48E-05 | 90.000 | .190E+04 | 90.000 | 3726.204 | 9.837 | .00004 |
| 84. | 3737.482 | 9.518 | .35E-05 | 0.00 | .68E-06 | 0.000 | .48E-05 | 90.000 | .194E+04 | 90.000 | 3737.309 | 9.511 | .00005 |
| 85. | 3748.236 | 9.175 | .35E-05 | 0.00 | .64E-06 | 0.000 | .48E-05 | 90.000 | .199E+04 | 90.000 | 3748.054 | 9.169 | .00005 |
| 86. | 3758.608 | 8.817 | .36E-05 | 0.00 | .60E-06 | 0.000 | .48E-05 | 90.000 | .202E+04 | 90.000 | 3758.420 | 8.812 | .00005 |
| 87. | 3768.580 | 8.443 | .36E-05 | 0.00 | .56E-06 | 0.000 | .48E-05 | 90.000 | .205E+04 | 90.000 | 3768.384 | 8.438 | .00005 |
| 88. | 3778.127 | 8.052 | .36E-05 | 0.00 | .51E-06 | 0.000 | .48E-05 | 90.000 | .208E+04 | 90.000 | 3777.925 | 8.047 | .00005 |
| 89. | 3787.228 | 7.643 | .36E-05 | 0.00 | .47E-06 | 0.000 | .48E-05 | 90.000 | .211E+04 | 90.000 | 3787.021 | 7.639 | .00005 |
| 90. | 3795.859 | 7.216 | .36E-05 | 0.00 | .42E-06 | 0.000 | .47E-05 | 90.000 | .213E+04 | 90.000 | 3795.647 | 7.213 | .00006 |
| 91. | 3803.996 | 6.770 | .36E-05 | 0.00 | .37E-06 | 0.000 | .47E-05 | 90.000 | .215E+04 | 90.000 | 3803.780 | 6.767 | .00006 |
| 92. | 3811.613 | 6.303 | .36E-05 | 0.00 | .31E-06 | 0.000 | .47E-05 | 90.000 | .216E+04 | 90.000 | 3811.393 | 6.301 | .00006 |
| 93. | 3818.683 | 5.815 | .36E-05 | 0.00 | .26E-06 | 0.000 | .47E-05 | 90.000 | .218E+04 | 90.000 | 3818.460 | 5.812 | .00006 |
| 94. | 3825.177 | 5.303 | .36E-05 | 0.00 | .20E-06 | 0.000 | .47E-05 | 90.000 | .219E+04 | 90.000 | 3824.952 | 5.301 | .00006 |
| 95. | 3831.066 | 4.766 | .36E-05 | 0.00 | .14E-06 | 0.000 | .47E-05 | 90.000 | .220E+04 | 90.000 | 3830.838 | 4.764 | .00006 |
| 96. | 3836.317 | 4.203 | .36E-05 | 0.00 | .71E-07 | 0.000 | .46E-05 | 90.000 | .221E+04 | 90.000 | 3836.086 | 4.201 | .00006 |
| 97. | 3840.894 | 3.609 | .36E-05 | 0.00 | .29E-09 | 0.000 | .46E-05 | 90.000 | .222E+04 | 90.000 | 3840.661 | 3.607 | .00006 |
| 98. | 3844.761 | 2.984 | .36E-05 | 0.00 | .75E-07 | 180.000 | .46E-05 | 90.000 | .223E+04 | 90.000 | 3844.525 | 2.982 | .00006 |
| 99. | 3847.876 | 2.324 | .36E-05 | 0.00 | .16E-06 | 180.000 | .46E-05 | 90.000 | .225E+04 | 90.000 | 3847.637 | 2.322 | .00006 |

X-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3850.197 | 1.627 | .35E-05 | 0.00 | .24E-06 | 180.000 | .46E-05 | 90.000 | .226E+04 | 90.000 | 3849.955 | 1.624 | .00006 |
| 101. | 3851.678 | .890 | .35E-05 | 0.00 | .33E-06 | 180.000 | .45E-05 | 90.000 | .228E+04 | 90.000 | 3851.431 | .886 | .00006 |
| 102. | 3852.270 | .112 | .35E-05 | 0.00 | .44E-06 | 180.000 | .45E-05 | 90.000 | .231E+04 | 90.000 | 3852.018 | .107 | .00007 |
| 103. | 3851.923 | -.710 | .35E-05 | 0.00 | .54E-06 | 180.000 | .44E-05 | 90.000 | .234E+04 | 90.000 | 3851.664 | -.716 | .00007 |
| 104. | 3850.588 | -1.572 | .34E-05 | 0.00 | .66E-06 | 180.000 | .44E-05 | 90.000 | .238E+04 | 90.000 | 3850.321 | -1.580 | .00007 |
| 105. | 3848.219 | -2.473 | .34E-05 | 0.00 | .78E-06 | -180.000 | .43E-05 | 90.000 | .242E+04 | 90.000 | 3847.941 | -2.483 | .00007 |
| 106. | 3844.775 | -3.404 | .33E-05 | 0.00 | .91E-06 | -180.000 | .43E-05 | 90.000 | .248E+04 | 90.000 | 3844.485 | -3.416 | .00008 |
| 107. | 3840.230 | -4.352 | .32E-05 | 0.00 | .10E-05 | -180.000 | .42E-05 | 90.000 | .254E+04 | 90.000 | 3839.924 | -4.367 | .00008 |
| 108. | 3834.575 | -5.298 | .31E-05 | 0.00 | .12E-05 | 180.000 | .41E-05 | 90.000 | .262E+04 | 90.000 | 3834.251 | -5.315 | .00008 |
| 109. | 3827.829 | -6.217 | .30E-05 | 0.00 | .13E-05 | 180.000 | .40E-05 | 90.000 | .271E+04 | 90.000 | 3827.484 | -6.236 | .00009 |
| 110. | 3820.045 | -7.076 | .29E-05 | 0.00 | .15E-05 | 180.000 | .39E-05 | 90.000 | .280E+04 | 90.000 | 3819.675 | -7.098 | .00010 |
| 111. | 3811.315 | -7.841 | .28E-05 | 0.00 | .16E-05 | 180.000 | .38E-05 | 90.000 | .291E+04 | 90.000 | 3810.919 | -7.866 | .00010 |
| 112. | 3801.776 | -8.476 | .27E-05 | 0.00 | .18E-05 | 180.000 | .37E-05 | 90.000 | .210E+02 | 90.000 | 3801.350 | -8.503 | .00011 |
| 113. | 3791.605 | -8.948 | .26E-05 | 0.00 | .19E-05 | 180.000 | .35E-05 | 90.000 | .314E+04 | 90.000 | 3791.147 | -8.977 | .00012 |
| 114. | 3781.013 | -9.231 | .24E-05 | 0.00 | .20E-05 | 180.000 | .34E-05 | 90.000 | .325E+04 | 90.000 | 3780.521 | -9.261 | .00013 |
| 115. | 3770.237 | -9.308 | .23E-05 | 0.00 | .21E-05 | 180.000 | .33E-05 | 90.000 | .337E+04 | 90.000 | 3769.711 | -9.338 | .00014 |
| 116. | 3759.528 | -9.169 | .22E-05 | 0.00 | .22E-05 | 180.000 | .31E-05 | 90.000 | .348E+04 | 90.000 | 3758.967 | -9.199 | .00015 |
| 117. | 3749.139 | -8.814 | .20E-05 | 0.00 | .23E-05 | 180.000 | .30E-05 | 90.000 | .359E+04 | 90.000 | 3748.544 | -8.844 | .00016 |
| 118. | 3739.316 | -8.248 | .19E-05 | 0.00 | .24E-05 | 180.000 | .29E-05 | 90.000 | .369E+04 | 90.000 | 3738.689 | -8.277 | .00017 |
| 119. | 3730.292 | -7.484 | .18E-05 | 0.00 | .24E-05 | 180.000 | .28E-05 | 90.000 | .379E+04 | 90.000 | 3729.634 | -7.511 | .00018 |
| 120. | 3722.278 | -6.536 | .17E-05 | 0.00 | .24E-05 | 180.000 | .26E-05 | 90.000 | .387E+04 | 90.000 | 3721.592 | -6.561 | .00018 |
| 121. | 3715.464 | -5.423 | .16E-05 | 0.00 | .25E-05 | -180.000 | .26E-05 | 90.000 | .394E+04 | 90.000 | 3714.753 | -5.445 | .00019 |
| 122. | 3710.017 | -4.165 | .15E-05 | 0.00 | .25E-05 | 180.000 | .25E-05 | 90.000 | .401E+04 | 90.000 | 3709.284 | -4.183 | .00020 |
| 123. | 3706.076 | -2.786 | .15E-05 | 0.00 | .24E-05 | 180.000 | .24E-05 | 90.000 | .405E+04 | 90.000 | 3705.326 | -2.799 | .00020 |
| 124. | 3703.756 | -1.309 | .14E-05 | 0.00 | .24E-05 | 180.000 | .24E-05 | 90.000 | .409E+04 | 90.000 | 3702.994 | -1.318 | .00021 |
| 125. | 3703.145 | .236 | .14E-05 | 0.00 | .24E-05 | 180.000 | .23E-05 | 90.000 | .410E+04 | 90.000 | 3702.376 | .233 | .00021 |
| 126. | 3704.302 | 1.817 | .14E-05 | 0.00 | .24E-05 | -180.000 | .23E-05 | 90.000 | .410E+04 | 90.000 | 3703.533 | 1.821 | .00021 |
| 127. | 3707.250 | 3.396 | .14E-05 | 0.00 | .23E-05 | 180.000 | .23E-05 | 90.000 | .408E+04 | 90.000 | 3706.489 | 3.409 | .00021 |
| 128. | 3711.966 | 4.923 | .14E-05 | 0.00 | .22E-05 | 180.000 | .23E-05 | 90.000 | .402E+04 | 90.000 | 3711.224 | 4.946 | .00020 |
| 129. | 3718.369 | 6.327 | .15E-05 | 0.00 | .22E-05 | -180.000 | .24E-05 | 90.000 | .393E+04 | 90.000 | 3717.659 | 6.364 | .00019 |
| 130. | 3726.276 | 7.501 | .16E-05 | 0.00 | .21E-05 | 180.000 | .25E-05 | 90.000 | .377E+04 | 90.000 | 3725.619 | 7.558 | .00018 |
| 131. | 3735.346 | 8.270 | .17E-05 | 0.00 | .19E-05 | 180.000 | .26E-05 | 90.000 | .353E+04 | 90.000 | 3734.768 | 8.354 | .00015 |
| 132. | 3744.963 | 8.344 | .20E-05 | 0.00 | .18E-05 | 180.000 | .29E-05 | 90.000 | .315E+04 | 90.000 | 3744.501 | 8.462 | .00012 |
| 133. | 3754.089 | 7.313 | .24E-05 | 0.00 | .15E-05 | 180.000 | .32E-05 | 90.000 | .256E+04 | 90.000 | 3753.781 | 7.459 | .00008 |
| 134. | 3761.229 | 4.884 | .28E-05 | 0.00 | .12E-05 | -180.000 | .35E-05 | 90.000 | .172E+04 | 90.000 | 3761.090 | 5.017 | .00004 |
| 135. | 3764.917 | 1.459 | .32E-05 | 0.00 | .76E-06 | 180.000 | .39E-05 | 90.000 | .705E+03 | 90.000 | 3764.894 | 1.520 | .00001 |
| 136. | 3764.612 | -1.897 | .35E-05 | 0.00 | .40E-06 | 180.000 | .41E-05 | 90.000 | .304E+03 | -90.000 | 3764.608 | -1.921 | 0.00000 |
| 137. | 3760.867 | -4.484 | .38E-05 | 0.00 | .12E-06 | 180.000 | .42E-05 | 90.000 | .117E+04 | -90.000 | 3760.804 | -4.557 | .00002 |
| 138. | 3754.621 | -6.282 | .39E-05 | 0.00 | .75E-07 | 0.000 | .43E-05 | 90.000 | .186E+04 | -90.000 | 3754.460 | -6.374 | .00004 |
| 139. | 3746.654 | -7.520 | .40E-05 | 0.00 | .20E-06 | 0.000 | .44E-05 | 90.000 | .241E+04 | -90.000 | 3746.385 | -7.615 | .00007 |
| 140. | 3737.496 | -8.399 | .41E-05 | 0.00 | .27E-06 | 0.000 | .44E-05 | 90.000 | .286E+04 | -90.000 | 3737.117 | -8.492 | .00010 |
| 141. | 3727.480 | -9.052 | .42E-05 | 0.00 | .31E-06 | 0.000 | .44E-05 | 90.000 | .324E+04 | -90.000 | 3726.996 | -9.142 | .00013 |
| 142. | 3716.823 | -9.560 | .42E-05 | 0.00 | .32E-06 | 0.000 | .45E-05 | 90.000 | .357E+04 | -90.000 | 3716.238 | -9.647 | .00016 |
| 143. | 3705.667 | -9.971 | .42E-05 | 0.00 | .32E-06 | 0.000 | .45E-05 | 90.000 | .387E+04 | -90.000 | 3704.984 | -10.056 | .00018 |
| 144. | 3694.110 | -10.313 | .43E-05 | 0.00 | .30E-06 | 0.000 | .45E-05 | 90.000 | .414E+04 | -90.000 | 3693.332 | -10.396 | .00021 |
| 145. | 3682.224 | -10.604 | .43E-05 | 0.00 | .28E-06 | 0.000 | .45E-05 | 90.000 | .439E+04 | -90.000 | 3681.352 | -10.686 | .00024 |
| 146. | 3670.063 | -10.856 | .43E-05 | 0.00 | .25E-06 | 0.000 | .45E-05 | 90.000 | .463E+04 | -90.000 | 3669.099 | -10.938 | .00026 |
| 147. | 3657.669 | -11.076 | .43E-05 | 0.00 | .21E-06 | 0.000 | .45E-05 | 90.000 | .485E+04 | -90.000 | 3656.614 | -11.158 | .00029 |
| 148. | 3645.079 | -11.270 | .43E-05 | 0.00 | .17E-06 | 0.000 | .46E-05 | 90.000 | .506E+04 | -90.000 | 3643.933 | -11.352 | .00031 |
| 149. | 3632.324 | -11.440 | .43E-05 | 0.00 | .12E-06 | 0.000 | .46E-05 | 90.000 | .527E+04 | -90.000 | 3631.087 | -11.523 | .00034 |

X-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3619.430 | -11.589 | .43E-05 | 0.00 | .72E-07 | 0.000 | .46E-05 | 90.000 | .547E+04 | -90.000 | 3618.102 | -11.672 | .00037 |
| 151. | 3606.423 | -11.718 | .43E-05 | 0.00 | .23E-07 | 0.000 | .46E-05 | 90.000 | .567E+04 | -90.000 | 3605.004 | -11.803 | .00039 |
| 152. | 3593.326 | -11.829 | .43E-05 | 0.00 | .28E-07 | 180.000 | .46E-05 | 90.000 | .586E+04 | -90.000 | 3591.815 | -11.914 | .00042 |
| 153. | 3580.161 | -11.921 | .43E-05 | 0.00 | .79E-07 | 180.000 | .46E-05 | 90.000 | .605E+04 | -90.000 | 3578.558 | -12.007 | .00045 |
| 154. | 3566.949 | -11.996 | .43E-05 | 0.00 | .13E-06 | 180.000 | .46E-05 | 90.000 | .624E+04 | -90.000 | 3565.254 | -12.083 | .00048 |
| 155. | 3553.712 | -12.053 | .43E-05 | 0.00 | .18E-06 | -180.000 | .47E-05 | 90.000 | .642E+04 | -90.000 | 3551.923 | -12.141 | .00050 |
| 156. | 3540.468 | -12.093 | .43E-05 | 0.00 | .24E-06 | -180.000 | .47E-05 | 90.000 | .660E+04 | -90.000 | 3538.587 | -12.182 | .00053 |
| 157. | 3527.238 | -12.117 | .43E-05 | 0.00 | .29E-06 | 180.000 | .47E-05 | 90.000 | .677E+04 | -90.000 | 3525.264 | -12.206 | .00056 |
| 158. | 3514.042 | -12.122 | .43E-05 | 0.00 | .34E-06 | 180.000 | .47E-05 | 90.000 | .694E+04 | -90.000 | 3511.975 | -12.212 | .00059 |
| 159. | 3500.898 | -12.111 | .43E-05 | 0.00 | .39E-06 | 180.000 | .47E-05 | 90.000 | .711E+04 | -90.000 | 3498.738 | -12.201 | .00062 |
| 160. | 3487.825 | -12.082 | .43E-05 | 0.00 | .44E-06 | 180.000 | .47E-05 | 90.000 | .728E+04 | -90.000 | 3485.573 | -12.173 | .00065 |
| 161. | 3474.843 | -12.037 | .43E-05 | 0.00 | .49E-06 | 180.000 | .47E-05 | 90.000 | .744E+04 | -90.000 | 3472.499 | -12.127 | .00067 |
| 162. | 3461.969 | -11.973 | .42E-05 | 0.00 | .54E-06 | 180.000 | .47E-05 | 90.000 | .760E+04 | -90.000 | 3459.534 | -12.063 | .00070 |
| 163. | 3449.221 | -11.893 | .42E-05 | 0.00 | .59E-06 | 180.000 | .48E-05 | 90.000 | .775E+04 | -90.000 | 3446.697 | -11.982 | .00073 |
| 164. | 3436.619 | -11.794 | .42E-05 | 0.00 | .64E-06 | 180.000 | .48E-05 | 90.000 | .790E+04 | -90.000 | 3434.006 | -11.883 | .00076 |
| 165. | 3424.178 | -11.679 | .42E-05 | 0.00 | .69E-06 | 180.000 | .48E-05 | 90.000 | .804E+04 | -90.000 | 3421.479 | -11.767 | .00079 |
| 166. | 3411.917 | -11.546 | .42E-05 | 0.00 | .73E-06 | 180.000 | .48E-05 | 90.000 | .819E+04 | -90.000 | 3409.133 | -11.633 | .00082 |
| 167. | 3399.853 | -11.396 | .41E-05 | 0.00 | .77E-06 | 180.000 | .48E-05 | 90.000 | .832E+04 | -90.000 | 3396.986 | -11.481 | .00084 |
| 168. | 3388.001 | -11.229 | .41E-05 | 0.00 | .82E-06 | 180.000 | .48E-05 | 90.000 | .845E+04 | -90.000 | 3385.054 | -11.312 | .00087 |
| 169. | 3376.379 | -11.045 | .41E-05 | 0.00 | .86E-06 | 180.000 | .48E-05 | 90.000 | .858E+04 | -90.000 | 3373.355 | -11.126 | .00090 |
| 170. | 3365.001 | -10.844 | .41E-05 | 0.00 | .90E-06 | 180.000 | .48E-05 | 90.000 | .870E+04 | -90.000 | 3361.902 | -10.923 | .00092 |
| 171. | 3353.883 | -10.628 | .40E-05 | 0.00 | .94E-06 | 180.000 | .48E-05 | 90.000 | .881E+04 | -90.000 | 3350.712 | -10.703 | .00095 |
| 172. | 3343.038 | -10.395 | .40E-05 | 0.00 | .97E-06 | 180.000 | .48E-05 | 90.000 | .892E+04 | -90.000 | 3339.800 | -10.467 | .00097 |
| 173. | 3332.481 | -10.147 | .40E-05 | 0.00 | .10E-05 | 180.000 | .48E-05 | 90.000 | .902E+04 | -90.000 | 3329.179 | -10.216 | .00099 |
| 174. | 3322.223 | -9.884 | .39E-05 | 0.00 | .10E-05 | 180.000 | .48E-05 | 90.000 | .912E+04 | -90.000 | 3318.862 | -9.949 | .00101 |
| 175. | 3312.278 | -9.607 | .39E-05 | 0.00 | .11E-05 | 180.000 | .48E-05 | 90.000 | .921E+04 | -90.000 | 3308.861 | -9.668 | .00103 |
| 176. | 3302.655 | -9.318 | .39E-05 | 0.00 | .11E-05 | 180.000 | .48E-05 | 90.000 | .929E+04 | -90.000 | 3299.188 | -9.374 | .00105 |
| 177. | 3293.366 | -9.015 | .38E-05 | 0.00 | .11E-05 | 180.000 | .49E-05 | 90.000 | .937E+04 | -90.000 | 3289.853 | -9.067 | .00107 |
| 178. | 3284.419 | -8.702 | .38E-05 | 0.00 | .11E-05 | -180.000 | .49E-05 | 90.000 | .943E+04 | -90.000 | 3280.866 | -8.748 | .00108 |
| 179. | 3275.821 | -8.378 | .37E-05 | 0.00 | .12E-05 | 180.000 | .49E-05 | 90.000 | .949E+04 | -90.000 | 3272.233 | -8.419 | .00110 |
| 180. | 3267.580 | -8.046 | .37E-05 | 0.00 | .12E-05 | -180.000 | .49E-05 | 90.000 | .954E+04 | -90.000 | 3263.962 | -8.081 | .00111 |

Y-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3159.329 | 0.000 | .29E-05 | 0.00 | .14E-05 | -90.000 | .43E-05 | 90.000 | .873E+04 | 0.000 | 3156.399 | 0.000 | .00093 |
| 1. | 3159.644 | .653 | .29E-05 | 0.00 | .14E-05 | -89.702 | .43E-05 | 90.789 | .872E+04 | .196 | 3156.715 | .656 | .00093 |
| 2. | 3160.585 | 1.302 | .29E-05 | 0.00 | .14E-05 | -89.407 | .43E-05 | 91.577 | .872E+04 | .389 | 3157.660 | 1.308 | .00093 |
| 3. | 3162.149 | 1.944 | .29E-05 | 0.00 | .14E-05 | -89.118 | .43E-05 | 92.364 | .871E+04 | .577 | 3159.229 | 1.953 | .00092 |
| 4. | 3164.329 | 2.575 | .29E-05 | 0.00 | .14E-05 | -88.839 | .43E-05 | 93.150 | .869E+04 | .758 | 3161.417 | 2.586 | .00092 |
| 5. | 3167.112 | 3.190 | .29E-05 | 0.00 | .14E-05 | -88.574 | .43E-05 | 93.932 | .867E+04 | .928 | 3164.210 | 3.205 | .00092 |
| 6. | 3170.486 | 3.788 | .29E-05 | 0.00 | .14E-05 | -88.326 | .43E-05 | 94.712 | .865E+04 | 1.086 | 3167.596 | 3.805 | .00091 |
| 7. | 3174.433 | 4.363 | .29E-05 | 0.00 | .14E-05 | -88.098 | .44E-05 | 95.486 | .862E+04 | 1.228 | 3171.558 | 4.383 | .00091 |
| 8. | 3178.933 | 4.913 | .29E-05 | 0.00 | .13E-05 | -87.896 | .44E-05 | 96.260 | .859E+04 | 1.351 | 3176.075 | 4.935 | .00090 |
| 9. | 3183.962 | 5.433 | .29E-05 | 0.00 | .13E-05 | -87.724 | .44E-05 | 97.026 | .856E+04 | 1.453 | 3181.123 | 5.458 | .00089 |
| 10. | 3189.494 | 5.921 | .30E-05 | 0.00 | .13E-05 | -87.587 | .44E-05 | 97.788 | .852E+04 | 1.532 | 3186.676 | 5.948 | .00088 |
| 11. | 3195.498 | 6.372 | .30E-05 | 0.00 | .13E-05 | -87.490 | .44E-05 | 98.543 | .847E+04 | 1.583 | 3192.702 | 6.402 | .00087 |
| 12. | 3201.939 | 6.784 | .30E-05 | 0.00 | .12E-05 | -87.442 | .44E-05 | 99.293 | .843E+04 | 1.605 | 3199.169 | 6.817 | .00087 |
| 13. | 3208.781 | 7.153 | .30E-05 | 0.00 | .12E-05 | -87.449 | .44E-05 | 100.035 | .838E+04 | 1.593 | 3206.038 | 7.188 | .00085 |
| 14. | 3215.981 | 7.476 | .30E-05 | 0.00 | .12E-05 | -87.522 | .44E-05 | 100.770 | .832E+04 | 1.545 | 3213.269 | 7.513 | .00084 |
| 15. | 3223.496 | 7.748 | .30E-05 | 0.00 | .11E-05 | -87.671 | .44E-05 | 101.497 | .826E+04 | 1.458 | 3220.815 | 7.788 | .00083 |
| 16. | 3231.275 | 7.968 | .30E-05 | 0.00 | .11E-05 | -87.911 | .44E-05 | 102.215 | .820E+04 | 1.328 | 3228.628 | 8.010 | .00082 |
| 17. | 3239.266 | 8.132 | .30E-05 | 0.00 | .10E-05 | -88.260 | .44E-05 | 102.925 | .813E+04 | 1.152 | 3236.655 | 8.175 | .00081 |
| 18. | 3247.412 | 8.236 | .31E-05 | 0.00 | .97E-06 | -88.743 | .44E-05 | 103.624 | .806E+04 | .927 | 3244.839 | 8.282 | .00079 |
| 19. | 3255.653 | 8.279 | .31E-05 | 0.00 | .91E-06 | -89.391 | .45E-05 | 104.313 | .799E+04 | .649 | 3253.122 | 8.327 | .00078 |
| 20. | 3263.926 | 8.257 | .31E-05 | 0.00 | .85E-06 | -90.249 | .45E-05 | 104.991 | .791E+04 | .317 | 3261.438 | 8.308 | .00076 |
| 21. | 3272.165 | 8.170 | .31E-05 | 0.00 | .78E-06 | -91.380 | .45E-05 | 105.655 | .782E+04 | -.074 | 3269.723 | 8.223 | .00075 |
| 22. | 3280.303 | 8.017 | .31E-05 | 0.00 | .71E-06 | -92.882 | .45E-05 | 106.306 | .773E+04 | -.525 | 3277.910 | 8.072 | .00073 |
| 23. | 3288.270 | 7.798 | .31E-05 | 0.00 | .63E-06 | -94.907 | .45E-05 | 106.941 | .764E+04 | -1.038 | 3285.929 | 7.856 | .00071 |
| 24. | 3296.000 | 7.515 | .31E-05 | 0.00 | .54E-06 | -97.713 | .45E-05 | 107.559 | .754E+04 | -1.613 | 3293.713 | 7.575 | .00069 |
| 25. | 3303.427 | 7.172 | .31E-05 | 0.00 | .46E-06 | -101.767 | .45E-05 | 108.157 | .744E+04 | -2.252 | 3301.197 | 7.235 | .00068 |
| 26. | 3310.491 | 6.776 | .31E-05 | 0.00 | .37E-06 | -107.991 | .45E-05 | 108.732 | .733E+04 | -2.953 | 3308.323 | 6.841 | .00065 |
| 27. | 3317.141 | 6.334 | .31E-05 | 0.00 | .28E-06 | -118.373 | .45E-05 | 109.281 | .721E+04 | -3.714 | 3315.036 | 6.402 | .00063 |
| 28. | 3323.332 | 5.859 | .31E-05 | 0.00 | .21E-06 | -137.160 | .45E-05 | 109.801 | .709E+04 | -4.533 | 3321.295 | 5.929 | .00061 |
| 29. | 3329.037 | 5.363 | .31E-05 | 0.00 | .18E-06 | -168.801 | .45E-05 | 110.287 | .696E+04 | -5.404 | 3327.069 | 5.436 | .00059 |
| 30. | 3334.239 | 4.862 | .31E-05 | 0.00 | .21E-06 | 158.017 | .45E-05 | 110.735 | .682E+04 | -6.322 | 3332.344 | 4.936 | .00057 |
| 31. | 3338.940 | 4.372 | .31E-05 | 0.00 | .29E-06 | 137.306 | .45E-05 | 111.142 | .668E+04 | -7.281 | 3337.119 | 4.448 | .00055 |
| 32. | 3343.158 | 3.910 | .31E-05 | 0.00 | .38E-06 | 125.713 | .45E-05 | 111.500 | .654E+04 | -8.272 | 3341.413 | 3.987 | .00052 |
| 33. | 3346.931 | 3.492 | .31E-05 | 0.00 | .49E-06 | 118.599 | .45E-05 | 111.808 | .639E+04 | -9.287 | 3345.262 | 3.569 | .00050 |
| 34. | 3350.308 | 3.134 | .30E-05 | 0.00 | .60E-06 | 113.732 | .45E-05 | 112.058 | .624E+04 | -10.318 | 3348.717 | 3.210 | .00047 |
| 35. | 3353.357 | 2.846 | .30E-05 | 0.00 | .71E-06 | 110.090 | .44E-05 | 112.248 | .608E+04 | -11.355 | 3351.842 | 2.922 | .00045 |
| 36. | 3356.154 | 2.637 | .30E-05 | 0.00 | .82E-06 | 107.162 | .44E-05 | 112.374 | .592E+04 | -12.390 | 3354.715 | 2.712 | .00043 |
| 37. | 3358.783 | 2.515 | .30E-05 | 0.00 | .92E-06 | 104.675 | .44E-05 | 112.433 | .576E+04 | -13.415 | 3357.418 | 2.588 | .00041 |
| 38. | 3361.333 | 2.480 | .29E-05 | 0.00 | .10E-05 | 102.467 | .44E-05 | 112.423 | .561E+04 | -14.420 | 3360.041 | 2.551 | .00038 |
| 39. | 3363.895 | 2.533 | .29E-05 | 0.00 | .11E-05 | 100.441 | .44E-05 | 112.342 | .545E+04 | -15.398 | 3362.674 | 2.602 | .00036 |
| 40. | 3366.556 | 2.670 | .29E-05 | 0.00 | .12E-05 | 98.533 | .43E-05 | 112.189 | .529E+04 | -16.342 | 3365.404 | 2.736 | .00034 |
| 41. | 3369.403 | 2.887 | .28E-05 | 0.00 | .13E-05 | 96.703 | .43E-05 | 111.966 | .514E+04 | -17.244 | 3368.316 | 2.951 | .00032 |
| 42. | 3372.513 | 3.177 | .28E-05 | 0.00 | .14E-05 | 94.921 | .43E-05 | 111.672 | .498E+04 | -18.100 | 3371.489 | 3.237 | .00030 |
| 43. | 3375.959 | 3.531 | .28E-05 | 0.00 | .15E-05 | 93.169 | .43E-05 | 111.311 | .483E+04 | -18.902 | 3374.995 | 3.589 | .00029 |
| 44. | 3379.804 | 3.941 | .27E-05 | 0.00 | .16E-05 | 91.433 | .43E-05 | 110.885 | .468E+04 | -19.644 | 3378.898 | 3.997 | .00027 |
| 45. | 3384.105 | 4.399 | .27E-05 | 0.00 | .16E-05 | 89.705 | .43E-05 | 110.397 | .454E+04 | -20.321 | 3383.253 | 4.452 | .00025 |
| 46. | 3388.907 | 4.896 | .27E-05 | 0.00 | .17E-05 | 87.979 | .43E-05 | 109.853 | .439E+04 | -20.926 | 3388.107 | 4.946 | .00024 |
| 47. | 3394.248 | 5.421 | .27E-05 | 0.00 | .18E-05 | 86.253 | .43E-05 | 109.256 | .425E+04 | -21.455 | 3393.498 | 5.469 | .00022 |
| 48. | 3400.160 | 5.968 | .27E-05 | 0.00 | .18E-05 | 84.524 | .43E-05 | 108.612 | .411E+04 | -21.902 | 3399.456 | 6.013 | .00021 |
| 49. | 3406.661 | 6.527 | .27E-05 | 0.00 | .19E-05 | 82.794 | .42E-05 | 107.928 | .398E+04 | -22.263 | 3406.002 | 6.569 | .00019 |

Y-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3413.768 | 7.090 | .27E-05 | 0.00 | .19E-05 | 61.064 | .42E-05 | 107.210 | .384E+04 | -22.531 | 3413.150 | 7.130 | .00018 |
| 51. | 3421.484 | 7.651 | .27E-05 | 0.00 | .20E-05 | 79.337 | .43E-05 | 106.464 | .371E+04 | -22.703 | 3420.906 | 7.688 | .00017 |
| 52. | 3429.809 | 8.202 | .27E-05 | 0.00 | .20E-05 | 77.617 | .43E-05 | 105.697 | .359E+04 | -22.774 | 3429.268 | 8.237 | .00016 |
| 53. | 3438.736 | 8.737 | .27E-05 | 0.00 | .20E-05 | 75.906 | .43E-05 | 104.915 | .347E+04 | -22.743 | 3438.230 | 8.769 | .00015 |
| 54. | 3448.250 | 9.250 | .27E-05 | 0.00 | .20E-05 | 74.210 | .43E-05 | 104.126 | .335E+04 | -22.607 | 3447.776 | 9.281 | .00014 |
| 55. | 3458.331 | 9.737 | .27E-05 | 0.00 | .21E-05 | 72.532 | .43E-05 | 103.335 | .323E+04 | -22.366 | 3457.888 | 9.765 | .00013 |
| 56. | 3468.955 | 10.192 | .27E-05 | 0.00 | .21E-05 | 70.878 | .43E-05 | 102.549 | .312E+04 | -22.018 | 3468.541 | 10.219 | .00012 |
| 57. | 3480.092 | 10.613 | .27E-05 | 0.00 | .21E-05 | 69.251 | .43E-05 | 101.774 | .302E+04 | -21.568 | 3479.703 | 10.637 | .00011 |
| 58. | 3491.705 | 10.995 | .27E-05 | 0.00 | .21E-05 | 67.655 | .43E-05 | 101.015 | .291E+04 | -21.017 | 3491.342 | 11.018 | .00010 |
| 59. | 3503.758 | 11.335 | .28E-05 | 0.00 | .21E-05 | 66.095 | .43E-05 | 100.277 | .281E+04 | -20.371 | 3503.418 | 11.356 | .00010 |
| 60. | 3516.208 | 11.632 | .28E-05 | 0.00 | .21E-05 | 64.574 | .43E-05 | 99.564 | .272E+04 | -19.637 | 3515.889 | 11.651 | .00009 |
| 61. | 3529.008 | 11.882 | .28E-05 | 0.00 | .21E-05 | 63.096 | .43E-05 | 98.879 | .263E+04 | -18.823 | 3528.709 | 11.900 | .00008 |
| 62. | 3542.111 | 12.085 | .28E-05 | 0.00 | .21E-05 | 61.662 | .44E-05 | 98.226 | .254E+04 | -17.937 | 3541.830 | 12.102 | .00008 |
| 63. | 3555.464 | 12.239 | .29E-05 | 0.00 | .21E-05 | 60.277 | .44E-05 | 97.606 | .246E+04 | -16.991 | 3555.201 | 12.255 | .00007 |
| 64. | 3569.015 | 12.343 | .29E-05 | 0.00 | .20E-05 | 58.940 | .44E-05 | 97.026 | .238E+04 | -15.995 | 3568.767 | 12.358 | .00007 |
| 65. | 3582.707 | 12.397 | .29E-05 | 0.00 | .20E-05 | 57.655 | .44E-05 | 96.481 | .230E+04 | -14.961 | 3582.475 | 12.411 | .00006 |
| 66. | 3596.485 | 12.400 | .30E-05 | 0.00 | .20E-05 | 56.423 | .44E-05 | 95.974 | .222E+04 | -13.901 | 3596.267 | 12.413 | .00006 |
| 67. | 3610.290 | 12.352 | .30E-05 | 0.00 | .19E-05 | 55.244 | .45E-05 | 95.506 | .214E+04 | -12.827 | 3610.086 | 12.365 | .00006 |
| 68. | 3624.063 | 12.254 | .30E-05 | 0.00 | .19E-05 | 54.119 | .45E-05 | 95.076 | .207E+04 | -11.749 | 3623.873 | 12.266 | .00005 |
| 69. | 3637.746 | 12.105 | .31E-05 | 0.00 | .18E-05 | 53.048 | .45E-05 | 94.684 | .200E+04 | -10.678 | 3637.568 | 12.117 | .00005 |
| 70. | 3651.278 | 11.907 | .31E-05 | 0.00 | .18E-05 | 52.031 | .45E-05 | 94.329 | .192E+04 | -9.624 | 3651.113 | 11.918 | .00005 |
| 71. | 3664.602 | 11.660 | .32E-05 | 0.00 | .18E-05 | 51.070 | .45E-05 | 94.010 | .185E+04 | -8.596 | 3664.448 | 11.671 | .00004 |
| 72. | 3677.657 | 11.365 | .32E-05 | 0.00 | .17E-05 | 50.162 | .46E-05 | 93.725 | .177E+04 | -7.600 | 3677.515 | 11.376 | .00004 |
| 73. | 3690.386 | 11.024 | .32E-05 | 0.00 | .16E-05 | 49.308 | .46E-05 | 93.472 | .169E+04 | -6.644 | 3690.256 | 11.034 | .00004 |
| 74. | 3702.733 | 10.637 | .33E-05 | 0.00 | .15E-05 | 48.507 | .46E-05 | 93.250 | .161E+04 | -5.732 | 3702.615 | 10.647 | .00003 |
| 75. | 3714.643 | 10.206 | .33E-05 | 0.00 | .15E-05 | 47.759 | .46E-05 | 93.056 | .153E+04 | -4.868 | 3714.535 | 10.216 | .00003 |
| 76. | 3726.061 | 9.734 | .34E-05 | 0.00 | .14E-05 | 47.063 | .46E-05 | 92.888 | .145E+04 | -4.057 | 3725.965 | 9.743 | .00003 |
| 77. | 3736.937 | 9.221 | .34E-05 | 0.00 | .13E-05 | 46.418 | .47E-05 | 92.745 | .136E+04 | -3.300 | 3736.851 | 9.230 | .00002 |
| 78. | 3747.220 | 8.669 | .34E-05 | 0.00 | .12E-05 | 45.825 | .47E-05 | 92.623 | .127E+04 | -2.599 | 3747.146 | 8.678 | .00002 |
| 79. | 3756.865 | 8.082 | .34E-05 | 0.00 | .11E-05 | 45.281 | .47E-05 | 92.521 | .118E+04 | -1.955 | 3756.801 | 8.090 | .00002 |
| 80. | 3765.827 | 7.460 | .35E-05 | 0.00 | .10E-05 | 44.787 | .47E-05 | 92.437 | .109E+04 | -1.369 | 3765.772 | 7.469 | .00001 |
| 81. | 3774.065 | 6.808 | .35E-05 | 0.00 | .95E-06 | 44.342 | .47E-05 | 92.368 | .988E+03 | -.841 | 3774.020 | 6.815 | .00001 |
| 82. | 3781.542 | 6.126 | .35E-05 | 0.00 | .86E-06 | 43.945 | .47E-05 | 92.312 | .887E+03 | -.370 | 3781.505 | 6.134 | .00001 |
| 83. | 3788.223 | 5.419 | .35E-05 | 0.00 | .75E-06 | 43.596 | .47E-05 | 92.267 | .783E+03 | .044 | 3788.194 | 5.426 | .00001 |
| 84. | 3794.076 | 4.689 | .36E-05 | 0.00 | .65E-06 | 43.295 | .47E-05 | 92.232 | .676E+03 | .401 | 3794.055 | 4.694 | .00001 |
| 85. | 3799.076 | 3.938 | .36E-05 | 0.00 | .55E-06 | 43.041 | .48E-05 | 92.205 | .567E+03 | .702 | 3799.061 | 3.943 | 0.00000 |
| 86. | 3803.199 | 3.171 | .36E-05 | 0.00 | .44E-06 | 42.833 | .48E-05 | 92.185 | .456E+03 | .947 | 3803.189 | 3.175 | 0.00000 |
| 87. | 3806.425 | 2.390 | .36E-05 | 0.00 | .33E-06 | 42.672 | .48E-05 | 92.171 | .344E+03 | 1.137 | 3806.420 | 2.393 | 0.00000 |
| 88. | 3808.741 | 1.599 | .36E-05 | 0.00 | .22E-06 | 42.557 | .48E-05 | 92.161 | .230E+03 | 1.278 | 3808.739 | 1.601 | 0.00000 |
| 89. | 3810.135 | .801 | .36E-05 | 0.00 | .11E-06 | 42.488 | .48E-05 | 92.156 | .115E+03 | 1.355 | 3810.134 | .802 | 0.00000 |
| 90. | 3810.600 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .48E-05 | 92.154 | 0. | 0.000 | 3810.600 | 0.000 | 0.00000 |
| 91. | 3810.135 | -.801 | .36E-05 | 0.00 | .11E-06 | -137.512 | .48E-05 | 92.156 | .115E+03 | -178.645 | 3810.134 | -.802 | 0.00000 |
| 92. | 3808.741 | -1.599 | .36E-05 | 0.00 | .22E-06 | -137.443 | .48E-05 | 92.161 | .230E+03 | -178.722 | 3808.739 | -1.601 | 0.00000 |
| 93. | 3806.425 | -2.390 | .36E-05 | 0.00 | .33E-06 | -137.328 | .48E-05 | 92.171 | .344E+03 | -178.863 | 3806.420 | -2.393 | 0.00000 |
| 94. | 3803.199 | -3.171 | .36E-05 | 0.00 | .44E-06 | -137.167 | .48E-05 | 92.185 | .456E+03 | -179.053 | 3803.189 | -3.175 | 0.00000 |
| 95. | 3799.076 | -3.938 | .36E-05 | 0.00 | .55E-06 | -136.959 | .48E-05 | 92.205 | .567E+03 | -179.298 | 3799.061 | -3.943 | 0.00000 |
| 96. | 3794.076 | -4.689 | .36E-05 | 0.00 | .65E-06 | -136.705 | .47E-05 | 92.232 | .676E+03 | -179.599 | 3794.055 | -4.694 | .00001 |
| 97. | 3788.223 | -5.419 | .35E-05 | 0.00 | .75E-06 | -136.404 | .47E-05 | 92.267 | .783E+03 | -179.956 | 3788.194 | -5.426 | .00001 |
| 98. | 3781.542 | -6.126 | .35E-05 | 0.00 | .86E-06 | -136.055 | .47E-05 | 92.312 | .887E+03 | 179.630 | 3781.505 | -6.134 | .00001 |
| 99. | 3774.065 | -6.808 | .35E-05 | 0.00 | .95E-06 | -135.658 | .47E-05 | 92.368 | .988E+03 | 179.159 | 3774.020 | -6.815 | .00001 |

Y-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3765.827 | -7.460 | .35E-05 | 0.00 | .10E-05 | -135.213 | .47E-05 | 92.437 | .109E+04 | 178.631 | 3765.772 | -7.469 | .00001 |
| 101. | 3756.865 | -8.082 | .34E-05 | 0.00 | .11E-05 | -134.719 | .47E-05 | 92.521 | .118E+04 | 178.044 | 3756.801 | -8.090 | .00002 |
| 102. | 3747.220 | -8.669 | .34E-05 | 0.00 | .12E-05 | -134.175 | .47E-05 | 92.623 | .127E+04 | 177.401 | 3747.146 | -8.678 | .00002 |
| 103. | 3736.937 | -9.221 | .34E-05 | 0.00 | .13E-05 | -133.582 | .47E-05 | 92.745 | .136E+04 | 176.700 | 3736.851 | -9.230 | .00002 |
| 104. | 3726.061 | -9.734 | .34E-05 | 0.00 | .14E-05 | -132.937 | .46E-05 | 92.888 | .145E+04 | 175.943 | 3725.965 | -9.743 | .00003 |
| 105. | 3714.643 | -10.206 | .33E-05 | 0.00 | .15E-05 | -132.241 | .46E-05 | 93.056 | .153E+04 | 175.132 | 3714.535 | -10.216 | .00003 |
| 106. | 3702.733 | -10.637 | .33E-05 | 0.00 | .15E-05 | -131.493 | .46E-05 | 93.250 | .161E+04 | 174.268 | 3702.615 | -10.647 | .00003 |
| 107. | 3690.386 | -11.024 | .32E-05 | 0.00 | .16E-05 | -130.692 | .46E-05 | 93.472 | .169E+04 | 173.356 | 3690.256 | -11.034 | .00004 |
| 108. | 3677.657 | -11.365 | .32E-05 | 0.00 | .17E-05 | -129.838 | .46E-05 | 93.725 | .177E+04 | 172.400 | 3677.515 | -11.376 | .00004 |
| 109. | 3664.602 | -11.660 | .32E-05 | 0.00 | .18E-05 | -128.930 | .45E-05 | 94.010 | .185E+04 | 171.404 | 3664.448 | -11.671 | .00004 |
| 110. | 3651.278 | -11.907 | .31E-05 | 0.00 | .18E-05 | -127.969 | .45E-05 | 94.329 | .192E+04 | 170.376 | 3651.113 | -11.918 | .00005 |
| 111. | 3637.746 | -12.105 | .31E-05 | 0.00 | .18E-05 | -126.952 | .45E-05 | 94.684 | .200E+04 | 169.322 | 3637.568 | -12.117 | .00005 |
| 112. | 3624.063 | -12.254 | .30E-05 | 0.00 | .19E-05 | -125.881 | .45E-05 | 95.076 | .207E+04 | 168.251 | 3623.873 | -12.266 | .00005 |
| 113. | 3610.290 | -12.352 | .30E-05 | 0.00 | .19E-05 | -124.756 | .45E-05 | 95.506 | .214E+04 | 167.173 | 3610.086 | -12.365 | .00006 |
| 114. | 3596.485 | -12.400 | .30E-05 | 0.00 | .20E-05 | -123.577 | .44E-05 | 95.974 | .222E+04 | 166.099 | 3596.267 | -12.413 | .00006 |
| 115. | 3582.707 | -12.397 | .29E-05 | 0.00 | .20E-05 | -122.345 | .44E-05 | 96.481 | .230E+04 | 165.039 | 3582.475 | -12.411 | .00006 |
| 116. | 3569.015 | -12.343 | .29E-05 | 0.00 | .20E-05 | -121.060 | .44E-05 | 97.026 | .238E+04 | 164.005 | 3568.767 | -12.358 | .00007 |
| 117. | 3555.464 | -12.239 | .29E-05 | 0.00 | .21E-05 | -119.723 | .44E-05 | 97.608 | .246E+04 | 163.009 | 3555.201 | -12.255 | .00007 |
| 118. | 3542.111 | -12.085 | .28E-05 | 0.00 | .21E-05 | -118.336 | .44E-05 | 96.226 | .254E+04 | 162.063 | 3541.830 | -12.102 | .00008 |
| 119. | 3529.008 | -11.882 | .28E-05 | 0.00 | .21E-05 | -116.904 | .43E-05 | 98.879 | .263E+04 | 161.177 | 3528.709 | -11.900 | .00008 |
| 120. | 3516.208 | -11.632 | .28E-05 | 0.00 | .21E-05 | -115.426 | .43E-05 | 99.564 | .272E+04 | 160.363 | 3515.889 | -11.651 | .00009 |
| 121. | 3503.758 | -11.335 | .28E-05 | 0.00 | .21E-05 | -113.905 | .43E-05 | 100.277 | .281E+04 | 159.629 | 3503.418 | -11.356 | .00010 |
| 122. | 3491.705 | -10.995 | .27E-05 | 0.00 | .21E-05 | -112.345 | .43E-05 | 101.015 | .291E+04 | 158.983 | 3491.342 | -11.018 | .00010 |
| 123. | 3480.092 | -10.613 | .27E-05 | 0.00 | .21E-05 | -110.749 | .43E-05 | 101.774 | .302E+04 | 158.432 | 3479.703 | -10.637 | .00011 |
| 124. | 3468.955 | -10.192 | .27E-05 | 0.00 | .21E-05 | -109.122 | .43E-05 | 102.549 | .312E+04 | 157.982 | 3468.541 | -10.219 | .00012 |
| 125. | 3458.331 | -9.737 | .27E-05 | 0.00 | .21E-05 | -107.468 | .43E-05 | 103.335 | .323E+04 | 157.634 | 3457.888 | -9.765 | .00013 |
| 126. | 3448.250 | -9.250 | .27E-05 | 0.00 | .20E-05 | -105.790 | .43E-05 | 104.126 | .335E+04 | 157.393 | 3447.776 | -9.281 | .00014 |
| 127. | 3438.736 | -8.737 | .27E-05 | 0.00 | .20E-05 | -104.094 | .43E-05 | 104.915 | .347E+04 | 157.257 | 3438.230 | -8.769 | .00015 |
| 128. | 3429.809 | -8.202 | .27E-05 | 0.00 | .20E-05 | -102.383 | .43E-05 | 105.697 | .359E+04 | 157.226 | 3429.268 | -8.237 | .00016 |
| 129. | 3421.484 | -7.651 | .27E-05 | 0.00 | .20E-05 | -100.663 | .43E-05 | 106.464 | .371E+04 | 157.297 | 3420.906 | -7.688 | .00017 |
| 130. | 3413.768 | -7.090 | .27E-05 | 0.00 | .19E-05 | -98.936 | .42E-05 | 107.210 | .384E+04 | 157.469 | 3413.150 | -7.130 | .00018 |
| 131. | 3406.661 | -6.527 | .27E-05 | 0.00 | .19E-05 | -97.206 | .42E-05 | 107.926 | .398E+04 | 157.737 | 3406.002 | -6.569 | .00019 |
| 132. | 3400.160 | -5.968 | .27E-05 | 0.00 | .18E-05 | -95.476 | .43E-05 | 108.612 | .411E+04 | 158.098 | 3399.456 | -6.013 | .00021 |
| 133. | 3394.248 | -5.421 | .27E-05 | 0.00 | .18E-05 | -93.747 | .43E-05 | 109.256 | .425E+04 | 158.545 | 3393.498 | -5.469 | .00022 |
| 134. | 3388.907 | -4.896 | .27E-05 | 0.00 | .17E-05 | -92.021 | .43E-05 | 109.853 | .439E+04 | 159.074 | 3388.107 | -4.946 | .00024 |
| 135. | 3384.105 | -4.399 | .27E-05 | 0.00 | .16E-05 | -90.295 | .43E-05 | 110.397 | .454E+04 | 159.679 | 3383.253 | -4.452 | .00025 |
| 136. | 3379.804 | -3.941 | .27E-05 | 0.00 | .16E-05 | -88.567 | .43E-05 | 110.885 | .468E+04 | 160.356 | 3378.898 | -3.997 | .00027 |
| 137. | 3375.959 | -3.531 | .28E-05 | 0.00 | .15E-05 | -86.831 | .43E-05 | 111.311 | .483E+04 | 161.098 | 3374.995 | -3.589 | .00029 |
| 138. | 3372.513 | -3.177 | .28E-05 | 0.00 | .14E-05 | -85.079 | .43E-05 | 111.672 | .498E+04 | 161.900 | 3371.489 | -3.237 | .00030 |
| 139. | 3369.403 | -2.887 | .28E-05 | 0.00 | .13E-05 | -83.297 | .43E-05 | 111.966 | .514E+04 | 162.756 | 3368.316 | -2.951 | .00032 |
| 140. | 3366.556 | -2.670 | .29E-05 | 0.00 | .12E-05 | -81.467 | .43E-05 | 112.189 | .529E+04 | 163.658 | 3365.404 | -2.736 | .00034 |
| 141. | 3363.895 | -2.533 | .29E-05 | 0.00 | .11E-05 | -79.559 | .44E-05 | 112.342 | .545E+04 | 164.602 | 3362.674 | -2.602 | .00036 |
| 142. | 3361.333 | -2.480 | .29E-05 | 0.00 | .10E-05 | -77.533 | .44E-05 | 112.423 | .561E+04 | 165.580 | 3360.041 | -2.551 | .00038 |
| 143. | 3358.783 | -2.515 | .30E-05 | 0.00 | .92E-06 | -75.325 | .44E-05 | 112.433 | .576E+04 | 166.585 | 3357.416 | -2.588 | .00041 |
| 144. | 3356.154 | -2.637 | .30E-05 | 0.00 | .82E-06 | -72.838 | .44E-05 | 112.374 | .592E+04 | 167.610 | 3354.715 | -2.712 | .00043 |
| 145. | 3353.357 | -2.846 | .30E-05 | 0.00 | .71E-06 | -69.910 | .44E-05 | 112.246 | .608E+04 | 168.645 | 3351.842 | -2.922 | .00045 |
| 146. | 3350.308 | -3.134 | .30E-05 | 0.00 | .60E-06 | -66.268 | .45E-05 | 112.058 | .624E+04 | 169.682 | 3348.717 | -3.210 | .00047 |
| 147. | 3346.931 | -3.492 | .31E-05 | 0.00 | .49E-06 | -61.401 | .45E-05 | 111.808 | .639E+04 | 170.713 | 3345.262 | -3.569 | .00050 |
| 148. | 3343.158 | -3.910 | .31E-05 | 0.00 | .38E-06 | -54.287 | .45E-05 | 111.500 | .654E+04 | 171.728 | 3341.413 | -3.987 | .00052 |
| 149. | 3338.940 | -4.372 | .31E-05 | 0.00 | .29E-06 | -42.694 | .45E-05 | 111.142 | .668E+04 | 172.719 | 3337.119 | -4.448 | .00055 |

Y-CUT QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3334.239 | -4.862 | .31E-05 | 0.00 | .21E-06 | -21.983 | .45E-05 | 110.735 | .682E+04 | 173.678 | 3332.344 | -4.936 | .00057 |
| 151. | 3329.037 | -5.363 | .31E-05 | 0.00 | .18E-06 | 11.199 | .45E-05 | 110.287 | .696E+04 | 174.596 | 3327.069 | -5.436 | .00059 |
| 152. | 3323.332 | -5.859 | .31E-05 | 0.00 | .21E-06 | 42.840 | .45E-05 | 109.801 | .709E+04 | 175.467 | 3321.295 | -5.929 | .00061 |
| 153. | 3317.141 | -6.334 | .31E-05 | 0.00 | .28E-06 | 61.627 | .45E-05 | 109.261 | .721E+04 | 176.286 | 3315.036 | -6.402 | .00063 |
| 154. | 3310.491 | -6.776 | .31E-05 | 0.00 | .37E-06 | 72.009 | .45E-05 | 108.732 | .733E+04 | 177.047 | 3308.323 | -6.841 | .00065 |
| 155. | 3303.427 | -7.172 | .31E-05 | 0.00 | .46E-06 | 78.233 | .45E-05 | 108.157 | .744E+04 | 177.748 | 3301.197 | -7.235 | .00068 |
| 156. | 3296.000 | -7.515 | .31E-05 | 0.00 | .54E-06 | 82.287 | .45E-05 | 107.559 | .754E+04 | 178.387 | 3293.713 | -7.575 | .00069 |
| 157. | 3288.270 | -7.798 | .31E-05 | 0.00 | .63E-06 | 85.093 | .45E-05 | 106.941 | .764E+04 | 178.962 | 3285.929 | -7.856 | .00071 |
| 158. | 3280.303 | -8.017 | .31E-05 | 0.00 | .71E-06 | 87.118 | .45E-05 | 106.306 | .773E+04 | 179.475 | 3277.910 | -8.072 | .00073 |
| 159. | 3272.165 | -8.170 | .31E-05 | 0.00 | .78E-06 | 88.620 | .45E-05 | 105.655 | .782E+04 | 179.926 | 3269.723 | -8.223 | .00075 |
| 160. | 3263.926 | -8.257 | .31E-05 | 0.00 | .85E-06 | 89.751 | .45E-05 | 104.991 | .791E+04 | -179.683 | 3261.438 | -8.308 | .00076 |
| 161. | 3255.653 | -8.279 | .31E-05 | 0.00 | .91E-06 | 90.609 | .45E-05 | 104.313 | .799E+04 | -179.351 | 3253.122 | -8.327 | .00078 |
| 162. | 3247.412 | -8.236 | .31E-05 | 0.00 | .97E-06 | 91.257 | .44E-05 | 103.624 | .806E+04 | -179.073 | 3244.839 | -8.282 | .00079 |
| 163. | 3239.266 | -8.132 | .30E-05 | 0.00 | .10E-05 | 91.740 | .44E-05 | 102.925 | .813E+04 | -178.848 | 3236.655 | -8.175 | .00081 |
| 164. | 3231.275 | -7.968 | .30E-05 | 0.00 | .11E-05 | 92.089 | .44E-05 | 102.215 | .820E+04 | -178.672 | 3228.628 | -8.010 | .00082 |
| 165. | 3223.496 | -7.748 | .30E-05 | 0.00 | .11E-05 | 92.329 | .44E-05 | 101.497 | .826E+04 | -178.542 | 3220.815 | -7.788 | .00083 |
| 166. | 3215.981 | -7.476 | .30E-05 | 0.00 | .12E-05 | 92.478 | .44E-05 | 100.770 | .832E+04 | -178.455 | 3213.269 | -7.513 | .00084 |
| 167. | 3208.781 | -7.153 | .30E-05 | 0.00 | .12E-05 | 92.551 | .44E-05 | 100.035 | .838E+04 | -178.407 | 3206.038 | -7.188 | .00085 |
| 168. | 3201.939 | -6.784 | .30E-05 | 0.00 | .12E-05 | 92.558 | .44E-05 | 99.293 | .843E+04 | -178.395 | 3199.169 | -6.817 | .00087 |
| 169. | 3195.498 | -6.372 | .30E-05 | 0.00 | .13E-05 | 92.510 | .44E-05 | 98.543 | .847E+04 | -178.417 | 3192.702 | -6.402 | .00087 |
| 170. | 3189.494 | -5.921 | .30E-05 | 0.00 | .13E-05 | 92.413 | .44E-05 | 97.788 | .852E+04 | -178.468 | 3186.676 | -5.948 | .00088 |
| 171. | 3183.962 | -5.433 | .29E-05 | 0.00 | .13E-05 | 92.276 | .44E-05 | 97.026 | .856E+04 | -178.547 | 3181.123 | -5.458 | .00089 |
| 172. | 3178.933 | -4.913 | .29E-05 | 0.00 | .13E-05 | 92.104 | .44E-05 | 96.260 | .859E+04 | -178.649 | 3176.075 | -4.935 | .00090 |
| 173. | 3174.433 | -4.363 | .29E-05 | 0.00 | .14E-05 | 91.902 | .44E-05 | 95.488 | .862E+04 | -178.772 | 3171.558 | -4.383 | .00091 |
| 174. | 3170.486 | -3.788 | .29E-05 | 0.00 | .14E-05 | 91.674 | .43E-05 | 94.712 | .865E+04 | -178.914 | 3167.596 | -3.805 | .00091 |
| 175. | 3167.112 | -3.190 | .29E-05 | 0.00 | .14E-05 | 91.426 | .43E-05 | 93.932 | .867E+04 | -179.072 | 3164.210 | -3.205 | .00092 |
| 176. | 3164.329 | -2.575 | .29E-05 | 0.00 | .14E-05 | 91.161 | .43E-05 | 93.150 | .869E+04 | -179.242 | 3161.417 | -2.586 | .00092 |
| 177. | 3162.149 | -1.944 | .29E-05 | 0.00 | .14E-05 | 90.882 | .43E-05 | 92.364 | .871E+04 | -179.423 | 3159.229 | -1.953 | .00092 |
| 178. | 3160.585 | -1.302 | .29E-05 | 0.00 | .14E-05 | 90.593 | .43E-05 | 91.577 | .872E+04 | -179.611 | 3157.660 | -1.308 | .00093 |
| 179. | 3159.644 | -.653 | .29E-05 | 0.00 | .14E-05 | 90.298 | .43E-05 | 90.789 | .872E+04 | -179.804 | 3156.715 | -.656 | .00093 |
| 180. | 3159.329 | 0.000 | .29E-05 | 0.00 | .14E-05 | 90.000 | .43E-05 | 90.000 | .873E+04 | 180.000 | 3156.399 | 0.000 | .00093 |

Z-AXIS BOULE QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3810.600 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .48E-05 | 92.154 | 0. | 0.000 | 3810.600 | 0.000 | 0.00000 |
| 1. | 3810.554 | -.429 | .36E-05 | 0.00 | .26E-07 | -169.818 | .48E-05 | 92.149 | .112E+03 | -108.609 | 3810.554 | -.430 | 0.00000 |
| 2. | 3810.419 | -.856 | .36E-05 | 0.00 | .53E-07 | -169.860 | .48E-05 | 92.136 | .224E+03 | -108.513 | 3810.416 | -.857 | 0.00000 |
| 3. | 3810.194 | -1.279 | .36E-05 | 0.00 | .79E-07 | -169.929 | .48E-05 | 92.114 | .335E+03 | -108.354 | 3810.189 | -1.280 | 0.00000 |
| 4. | 3809.885 | -1.695 | .36E-05 | 0.00 | .10E-06 | -170.025 | .48E-05 | 92.083 | .445E+03 | -108.134 | 3809.876 | -1.696 | 0.00000 |
| 5. | 3809.496 | -2.103 | .36E-05 | 0.00 | .13E-06 | -170.148 | .48E-05 | 92.045 | .554E+03 | -107.853 | 3809.482 | -2.104 | 0.00000 |
| 6. | 3809.032 | -2.500 | .36E-05 | 0.00 | .15E-06 | -170.298 | .48E-05 | 91.999 | .661E+03 | -107.515 | 3809.012 | -2.502 | .00001 |
| 7. | 3808.500 | -2.886 | .36E-05 | 0.00 | .18E-06 | -170.474 | .48E-05 | 91.945 | .766E+03 | -107.122 | 3808.473 | -2.888 | .00001 |
| 8. | 3807.908 | -3.258 | .36E-05 | 0.00 | .20E-06 | -170.676 | .48E-05 | 91.885 | .869E+03 | -106.677 | 3807.873 | -3.260 | .00001 |
| 9. | 3807.263 | -3.616 | .36E-05 | 0.00 | .22E-06 | -170.904 | .48E-05 | 91.820 | .969E+03 | -106.182 | 3807.219 | -3.618 | .00001 |
| 10. | 3806.575 | -3.958 | .36E-05 | 0.00 | .24E-06 | -171.156 | .48E-05 | 91.749 | .107E+04 | -105.643 | 3806.521 | -3.960 | .00001 |
| 11. | 3805.852 | -4.284 | .36E-05 | 0.00 | .26E-06 | -171.432 | .48E-05 | 91.673 | .116E+04 | -105.061 | 3805.788 | -4.286 | .00002 |
| 12. | 3805.103 | -4.593 | .36E-05 | 0.00 | .28E-06 | -171.731 | .48E-05 | 91.594 | .125E+04 | -104.441 | 3805.029 | -4.595 | .00002 |
| 13. | 3804.337 | -4.885 | .36E-05 | 0.00 | .29E-06 | -172.054 | .48E-05 | 91.512 | .134E+04 | -103.787 | 3804.253 | -4.886 | .00002 |
| 14. | 3803.564 | -5.159 | .36E-05 | 0.00 | .31E-06 | -172.398 | .48E-05 | 91.426 | .143E+04 | -103.100 | 3803.469 | -5.160 | .00002 |
| 15. | 3802.792 | -5.415 | .36E-05 | 0.00 | .32E-06 | -172.762 | .48E-05 | 91.339 | .151E+04 | -102.386 | 3802.686 | -5.416 | .00003 |
| 16. | 3802.029 | -5.653 | .36E-05 | 0.00 | .34E-06 | -173.147 | .48E-05 | 91.250 | .158E+04 | -101.647 | 3801.912 | -5.654 | .00003 |
| 17. | 3801.284 | -5.874 | .36E-05 | 0.00 | .35E-06 | -173.551 | .48E-05 | 91.161 | .165E+04 | -100.886 | 3801.156 | -5.874 | .00003 |
| 18. | 3800.564 | -6.077 | .36E-05 | 0.00 | .36E-06 | -173.974 | .47E-05 | 91.070 | .172E+04 | -100.107 | 3800.425 | -6.076 | .00004 |
| 19. | 3799.876 | -6.262 | .36E-05 | 0.00 | .37E-06 | -174.413 | .47E-05 | 90.979 | .179E+04 | -99.311 | 3799.727 | -6.262 | .00004 |
| 20. | 3799.227 | -6.431 | .36E-05 | 0.00 | .38E-06 | -174.868 | .47E-05 | 90.888 | .184E+04 | -98.500 | 3799.068 | -6.430 | .00004 |
| 21. | 3798.622 | -6.582 | .36E-05 | 0.00 | .39E-06 | -175.337 | .47E-05 | 90.797 | .190E+04 | -97.678 | 3798.454 | -6.581 | .00004 |
| 22. | 3798.066 | -6.717 | .36E-05 | 0.00 | .39E-06 | -175.821 | .47E-05 | 90.707 | .194E+04 | -96.846 | 3797.890 | -6.715 | .00005 |
| 23. | 3797.565 | -6.835 | .36E-05 | 0.00 | .40E-06 | -176.316 | .47E-05 | 90.617 | .199E+04 | -96.006 | 3797.381 | -6.833 | .00005 |
| 24. | 3797.123 | -6.937 | .36E-05 | 0.00 | .41E-06 | -176.822 | .47E-05 | 90.528 | .202E+04 | -95.159 | 3796.932 | -6.934 | .00005 |
| 25. | 3796.743 | -7.022 | .36E-05 | 0.00 | .41E-06 | -177.337 | .47E-05 | 90.439 | .206E+04 | -94.307 | 3796.546 | -7.020 | .00005 |
| 26. | 3796.428 | -7.092 | .36E-05 | 0.00 | .41E-06 | -177.860 | .47E-05 | 90.350 | .208E+04 | -93.450 | 3796.225 | -7.089 | .00005 |
| 27. | 3796.180 | -7.146 | .36E-05 | 0.00 | .42E-06 | -178.389 | .47E-05 | 90.262 | .210E+04 | -92.590 | 3795.974 | -7.143 | .00005 |
| 28. | 3796.002 | -7.185 | .36E-05 | 0.00 | .42E-06 | -178.924 | .47E-05 | 90.175 | .212E+04 | -91.728 | 3795.793 | -7.182 | .00006 |
| 29. | 3795.895 | -7.208 | .36E-05 | 0.00 | .42E-06 | -179.461 | .47E-05 | 90.087 | .213E+04 | -90.864 | 3795.684 | -7.205 | .00006 |
| 30. | 3795.859 | -7.216 | .36E-05 | 0.00 | .42E-06 | -180.000 | .47E-05 | 90.000 | .213E+04 | -90.000 | 3795.647 | -7.213 | .00006 |
| 31. | 3795.895 | -7.208 | .36E-05 | 0.00 | .42E-06 | 179.461 | .47E-05 | 89.913 | .213E+04 | -89.136 | 3795.684 | -7.205 | .00006 |
| 32. | 3796.002 | -7.185 | .36E-05 | 0.00 | .42E-06 | 178.924 | .47E-05 | 89.825 | .212E+04 | -88.272 | 3795.793 | -7.182 | .00006 |
| 33. | 3796.180 | -7.146 | .36E-05 | 0.00 | .42E-06 | 178.389 | .47E-05 | 89.738 | .210E+04 | -87.410 | 3795.974 | -7.143 | .00005 |
| 34. | 3796.428 | -7.092 | .36E-05 | 0.00 | .41E-06 | 177.860 | .47E-05 | 89.650 | .208E+04 | -86.550 | 3796.225 | -7.089 | .00005 |
| 35. | 3796.743 | -7.022 | .36E-05 | 0.00 | .41E-06 | 177.337 | .47E-05 | 89.561 | .206E+04 | -85.693 | 3796.546 | -7.020 | .00005 |
| 36. | 3797.123 | -6.937 | .36E-05 | 0.00 | .41E-06 | 176.822 | .47E-05 | 89.472 | .202E+04 | -84.841 | 3796.932 | -6.934 | .00005 |
| 37. | 3797.565 | -6.835 | .36E-05 | 0.00 | .40E-06 | 176.316 | .47E-05 | 89.383 | .199E+04 | -83.994 | 3797.381 | -6.833 | .00005 |
| 38. | 3798.066 | -6.717 | .36E-05 | 0.00 | .39E-06 | 175.821 | .47E-05 | 89.293 | .194E+04 | -83.154 | 3797.890 | -6.715 | .00005 |
| 39. | 3798.622 | -6.582 | .36E-05 | 0.00 | .39E-06 | 175.337 | .47E-05 | 89.203 | .190E+04 | -82.322 | 3798.454 | -6.581 | .00004 |
| 40. | 3799.227 | -6.431 | .36E-05 | 0.00 | .38E-06 | 174.868 | .47E-05 | 89.112 | .184E+04 | -81.500 | 3799.068 | -6.430 | .00004 |
| 41. | 3799.876 | -6.262 | .36E-05 | 0.00 | .37E-06 | 174.413 | .47E-05 | 89.021 | .179E+04 | -80.689 | 3799.727 | -6.262 | .00004 |
| 42. | 3800.564 | -6.077 | .36E-05 | 0.00 | .36E-06 | 173.974 | .47E-05 | 88.930 | .172E+04 | -79.893 | 3800.425 | -6.076 | .00004 |
| 43. | 3801.284 | -5.874 | .36E-05 | 0.00 | .35E-06 | 173.551 | .48E-05 | 88.839 | .165E+04 | -79.114 | 3801.156 | -5.874 | .00003 |
| 44. | 3802.029 | -5.653 | .36E-05 | 0.00 | .34E-06 | 173.147 | .48E-05 | 88.750 | .158E+04 | -78.353 | 3801.912 | -5.654 | .00003 |
| 45. | 3802.792 | -5.415 | .36E-05 | 0.00 | .32E-06 | 172.762 | .48E-05 | 88.661 | .151E+04 | -77.614 | 3802.686 | -5.416 | .00003 |
| 46. | 3803.564 | -5.159 | .36E-05 | 0.00 | .31E-06 | 172.398 | .48E-05 | 88.574 | .143E+04 | -76.900 | 3803.469 | -5.160 | .00002 |
| 47. | 3804.337 | -4.885 | .36E-05 | 0.00 | .29E-06 | 172.054 | .48E-05 | 88.488 | .134E+04 | -76.213 | 3804.253 | -4.886 | .00002 |
| 48. | 3805.103 | -4.593 | .36E-05 | 0.00 | .28E-06 | 171.731 | .48E-05 | 88.406 | .125E+04 | -75.559 | 3805.029 | -4.595 | .00002 |
| 49. | 3805.852 | -4.284 | .36E-05 | 0.00 | .26E-06 | 171.432 | .48E-05 | 88.327 | .116E+04 | -74.939 | 3805.788 | -4.286 | .00002 |

Z-AXIS BOULE QUARTZ

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3806.575 | -3.958 | .36E-05 | 0.00 | .24E-06 | 171.156 | .48E-05 | 88.251 | .107E+04 | -74.357 | 3806.521 | -3.960 | .00001 |
| 51. | 3807.263 | -3.616 | .36E-05 | 0.00 | .22E-06 | 170.904 | .48E-05 | 88.180 | .969E+03 | -73.818 | 3807.219 | -3.618 | .00001 |
| 52. | 3807.908 | -3.258 | .36E-05 | 0.00 | .20E-06 | 170.676 | .48E-05 | 88.115 | .869E+03 | -73.323 | 3807.873 | -3.260 | .00001 |
| 53. | 3808.500 | -2.886 | .36E-05 | 0.00 | .18E-06 | 170.474 | .48E-05 | 88.055 | .766E+03 | -72.878 | 3808.473 | -2.888 | .00001 |
| 54. | 3809.032 | -2.500 | .36E-05 | 0.00 | .15E-06 | 170.298 | .48E-05 | 88.001 | .661E+03 | -72.485 | 3809.012 | -2.502 | .00001 |
| 55. | 3809.496 | -2.103 | .36E-05 | 0.00 | .13E-06 | 170.148 | .48E-05 | 87.955 | .554E+03 | -72.147 | 3809.482 | -2.104 | 0.00000 |
| 56. | 3809.885 | -1.695 | .36E-05 | 0.00 | .10E-06 | 170.025 | .48E-05 | 87.917 | .445E+03 | -71.866 | 3809.876 | -1.696 | 0.00000 |
| 57. | 3810.194 | -1.279 | .36E-05 | 0.00 | .79E-07 | 169.929 | .48E-05 | 87.886 | .335E+03 | -71.646 | 3810.189 | -1.280 | 0.00000 |
| 58. | 3810.419 | -.856 | .36E-05 | 0.00 | .53E-07 | 169.860 | .48E-05 | 87.864 | .224E+03 | -71.487 | 3810.416 | -.857 | 0.00000 |
| 59. | 3810.554 | -.429 | .36E-05 | 0.00 | .26E-07 | 169.818 | .48E-05 | 87.851 | .112E+03 | -71.391 | 3810.554 | -.430 | 0.00000 |
| 60. | 3810.600 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .48E-05 | 87.846 | 0. | 0.000 | 3810.600 | 0.000 | 0.00000 |
| 61. | 3810.554 | .429 | .36E-05 | 0.00 | .26E-07 | -10.182 | .48E-05 | 87.851 | .112E+03 | 108.609 | 3810.554 | .430 | 0.00000 |
| 62. | 3810.419 | .856 | .36E-05 | 0.00 | .53E-07 | -10.140 | .48E-05 | 87.864 | .224E+03 | 108.513 | 3810.416 | .857 | 0.00000 |
| 63. | 3810.194 | 1.279 | .36E-05 | 0.00 | .79E-07 | -10.071 | .48E-05 | 87.886 | .335E+03 | 108.354 | 3810.189 | 1.280 | 0.00000 |
| 64. | 3809.885 | 1.695 | .36E-05 | 0.00 | .10E-06 | -9.975 | .48E-05 | 87.917 | .445E+03 | 108.134 | 3809.876 | 1.696 | 0.00000 |
| 65. | 3809.496 | 2.103 | .36E-05 | 0.00 | .13E-06 | -9.852 | .48E-05 | 87.955 | .554E+03 | 107.853 | 3809.482 | 2.104 | 0.00000 |
| 66. | 3809.032 | 2.500 | .36E-05 | 0.00 | .15E-06 | -9.702 | .48E-05 | 88.001 | .661E+03 | 107.515 | 3809.012 | 2.502 | .00001 |
| 67. | 3808.500 | 2.886 | .36E-05 | 0.00 | .18E-06 | -9.526 | .48E-05 | 88.055 | .766E+03 | 107.122 | 3808.473 | 2.888 | .00001 |
| 68. | 3807.908 | 3.258 | .36E-05 | 0.00 | .20E-06 | -9.324 | .48E-05 | 88.115 | .869E+03 | 106.677 | 3807.873 | 3.260 | .00001 |
| 69. | 3807.263 | 3.616 | .36E-05 | 0.00 | .22E-06 | -9.096 | .48E-05 | 88.180 | .969E+03 | 106.182 | 3807.219 | 3.618 | .00001 |
| 70. | 3806.575 | 3.958 | .36E-05 | 0.00 | .24E-06 | -8.844 | .48E-05 | 88.251 | .107E+04 | 105.643 | 3806.521 | 3.960 | .00001 |
| 71. | 3805.852 | 4.284 | .36E-05 | 0.00 | .26E-06 | -8.568 | .48E-05 | 88.327 | .116E+04 | 105.061 | 3805.788 | 4.286 | .00002 |
| 72. | 3805.103 | 4.593 | .36E-05 | 0.00 | .28E-06 | -8.269 | .48E-05 | 88.406 | .125E+04 | 104.441 | 3805.029 | 4.595 | .00002 |
| 73. | 3804.337 | 4.885 | .36E-05 | 0.00 | .29E-06 | -7.946 | .48E-05 | 88.488 | .134E+04 | 103.787 | 3804.253 | 4.886 | .00002 |
| 74. | 3803.564 | 5.159 | .36E-05 | 0.00 | .31E-06 | -7.602 | .48E-05 | 88.574 | .143E+04 | 103.100 | 3803.469 | 5.160 | .00002 |
| 75. | 3802.792 | 5.415 | .36E-05 | 0.00 | .32E-06 | -7.238 | .48E-05 | 88.661 | .151E+04 | 102.386 | 3802.686 | 5.416 | .00003 |
| 76. | 3802.029 | 5.653 | .36E-05 | 0.00 | .34E-06 | -6.853 | .48E-05 | 88.750 | .158E+04 | 101.647 | 3801.912 | 5.654 | .00003 |
| 77. | 3801.284 | 5.874 | .36E-05 | 0.00 | .35E-06 | -6.449 | .48E-05 | 88.839 | .165E+04 | 100.886 | 3801.156 | 5.874 | .00003 |
| 78. | 3800.564 | 6.077 | .36E-05 | 0.00 | .36E-06 | -6.026 | .47E-05 | 88.930 | .172E+04 | 100.107 | 3800.425 | 6.076 | .00004 |
| 79. | 3799.876 | 6.262 | .36E-05 | 0.00 | .37E-06 | -5.587 | .47E-05 | 89.021 | .179E+04 | 99.311 | 3799.727 | 6.262 | .00004 |
| 80. | 3799.227 | 6.431 | .36E-05 | 0.00 | .38E-06 | -5.132 | .47E-05 | 89.112 | .184E+04 | 98.500 | 3799.068 | 6.430 | .00004 |
| 81. | 3798.622 | 6.582 | .36E-05 | 0.00 | .39E-06 | -4.663 | .47E-05 | 89.203 | .190E+04 | 97.678 | 3798.454 | 6.581 | .00004 |
| 82. | 3798.066 | 6.717 | .36E-05 | 0.00 | .39E-06 | -4.179 | .47E-05 | 89.293 | .194E+04 | 96.846 | 3797.890 | 6.715 | .00005 |
| 83. | 3797.565 | 6.835 | .36E-05 | 0.00 | .40E-06 | -3.684 | .47E-05 | 89.383 | .199E+04 | 96.006 | 3797.381 | 6.833 | .00005 |
| 84. | 3797.123 | 6.937 | .36E-05 | 0.00 | .41E-06 | -3.178 | .47E-05 | 89.472 | .202E+04 | 95.159 | 3796.932 | 6.934 | .00005 |
| 85. | 3796.743 | 7.022 | .36E-05 | 0.00 | .41E-06 | -2.663 | .47E-05 | 89.561 | .206E+04 | 94.307 | 3796.546 | 7.020 | .00005 |
| 86. | 3796.428 | 7.092 | .36E-05 | 0.00 | .41E-06 | -2.140 | .47E-05 | 89.650 | .208E+04 | 93.450 | 3796.225 | 7.089 | .00005 |
| 87. | 3796.180 | 7.146 | .36E-05 | 0.00 | .42E-06 | -1.611 | .47E-05 | 89.738 | .210E+04 | 92.590 | 3795.974 | 7.143 | .00005 |
| 88. | 3796.002 | 7.185 | .36E-05 | 0.00 | .42E-06 | -1.076 | .47E-05 | 89.825 | .212E+04 | 91.728 | 3795.793 | 7.182 | .00006 |
| 89. | 3795.895 | 7.208 | .36E-05 | 0.00 | .42E-06 | -.539 | .47E-05 | 89.913 | .213E+04 | 90.864 | 3795.684 | 7.205 | .00006 |
| 90. | 3795.859 | 7.216 | .36E-05 | 0.00 | .42E-06 | 0.000 | .47E-05 | 90.000 | .213E+04 | 90.000 | 3795.647 | 7.213 | .00006 |
| 91. | 3795.895 | 7.208 | .36E-05 | 0.00 | .42E-06 | .539 | .47E-05 | 90.087 | .213E+04 | 89.136 | 3795.684 | 7.205 | .00006 |
| 92. | 3796.002 | 7.185 | .36E-05 | 0.00 | .42E-06 | 1.076 | .47E-05 | 90.175 | .212E+04 | 88.272 | 3795.793 | 7.182 | .00006 |
| 93. | 3796.180 | 7.146 | .36E-05 | 0.00 | .42E-06 | 1.611 | .47E-05 | 90.262 | .210E+04 | 87.410 | 3795.974 | 7.143 | .00005 |
| 94. | 3796.428 | 7.092 | .36E-05 | 0.00 | .41E-06 | 2.140 | .47E-05 | 90.350 | .208E+04 | 86.550 | 3796.225 | 7.089 | .00005 |
| 95. | 3796.743 | 7.022 | .36E-05 | 0.00 | .41E-06 | 2.663 | .47E-05 | 90.439 | .206E+04 | 85.693 | 3796.546 | 7.020 | .00005 |
| 96. | 3797.123 | 6.937 | .36E-05 | 0.00 | .41E-06 | 3.178 | .47E-05 | 90.528 | .202E+04 | 84.841 | 3796.932 | 6.934 | .00005 |
| 97. | 3797.565 | 6.835 | .36E-05 | 0.00 | .40E-06 | 3.684 | .47E-05 | 90.617 | .199E+04 | 83.994 | 3797.381 | 6.833 | .00005 |
| 98. | 3798.066 | 6.717 | .36E-05 | 0.00 | .39E-06 | 4.179 | .47E-05 | 90.707 | .194E+04 | 83.154 | 3797.890 | 6.715 | .00005 |
| 99. | 3798.622 | 6.582 | .36E-05 | 0.00 | .39E-06 | 4.663 | .47E-05 | 90.797 | .190E+04 | 82.322 | 3798.454 | 6.581 | .00004 |

Z-AXIS BOULE QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3799.227 | 6.431 | .36E-05 | 0.00 | .38E-06 | 5.132 | .47E-05 | 90.888 | .184E+04 | 81.500 | 3799.068 | 6.430 | .00004 |
| 101. | 3799.876 | 6.262 | .36E-05 | 0.00 | .37E-06 | 5.587 | .47E-05 | 90.979 | .179E+04 | 80.689 | 3799.727 | 6.262 | .00004 |
| 102. | 3800.564 | 6.077 | .36E-05 | 0.00 | .36E-06 | 6.026 | .47E-05 | 91.070 | .172E+04 | 79.893 | 3800.425 | 6.076 | .00004 |
| 103. | 3801.284 | 5.874 | .36E-05 | 0.00 | .35E-06 | 6.449 | .48E-05 | 91.161 | .165E+04 | 79.114 | 3801.156 | 5.874 | .00003 |
| 104. | 3802.029 | 5.653 | .36E-05 | 0.00 | .34E-06 | 6.853 | .48E-05 | 91.250 | .158E+04 | 78.353 | 3801.912 | 5.654 | .00003 |
| 105. | 3802.792 | 5.415 | .36E-05 | 0.00 | .32E-06 | 7.238 | .48E-05 | 91.339 | .151E+04 | 77.614 | 3802.686 | 5.416 | .00003 |
| 106. | 3803.564 | 5.159 | .36E-05 | 0.00 | .31E-06 | 7.602 | .48E-05 | 91.426 | .143E+04 | 76.900 | 3803.469 | 5.160 | .00002 |
| 107. | 3804.337 | 4.885 | .36E-05 | 0.00 | .29E-06 | 7.946 | .48E-05 | 91.512 | .134E+04 | 76.213 | 3804.253 | 4.886 | .00002 |
| 108. | 3805.103 | 4.593 | .36E-05 | 0.00 | .28E-06 | 8.269 | .48E-05 | 91.594 | .125E+04 | 75.559 | 3805.029 | 4.595 | .00002 |
| 109. | 3805.852 | 4.284 | .36E-05 | 0.00 | .26E-06 | 8.568 | .48E-05 | 91.673 | .116E+04 | 74.939 | 3805.788 | 4.286 | .00002 |
| 110. | 3806.575 | 3.958 | .36E-05 | 0.00 | .24E-06 | 8.844 | .48E-05 | 91.749 | .107E+04 | 74.357 | 3806.521 | 3.960 | .00001 |
| 111. | 3807.263 | 3.616 | .36E-05 | 0.00 | .22E-06 | 9.096 | .48E-05 | 91.820 | .969E+03 | 73.818 | 3807.219 | 3.618 | .00001 |
| 112. | 3807.908 | 3.258 | .36E-05 | 0.00 | .20E-06 | 9.324 | .48E-05 | 91.885 | .869E+03 | 73.323 | 3807.873 | 3.260 | .00001 |
| 113. | 3808.500 | 2.886 | .36E-05 | 0.00 | .18E-06 | 9.526 | .48E-05 | 91.945 | .766E+03 | 72.878 | 3808.473 | 2.888 | .00001 |
| 114. | 3809.032 | 2.500 | .36E-05 | 0.00 | .15E-06 | 9.702 | .48E-05 | 91.999 | .661E+03 | 72.485 | 3809.012 | 2.502 | .00001 |
| 115. | 3809.496 | 2.103 | .36E-05 | 0.00 | .13E-06 | 9.852 | .48E-05 | 92.045 | .554E+03 | 72.147 | 3809.482 | 2.104 | 0.00000 |
| 116. | 3809.885 | 1.695 | .36E-05 | 0.00 | .10E-06 | 9.975 | .48E-05 | 92.083 | .445E+03 | 71.866 | 3809.876 | 1.696 | 0.00000 |
| 117. | 3810.194 | 1.279 | .36E-05 | 0.00 | .79E-07 | 10.071 | .48E-05 | 92.114 | .335E+03 | 71.646 | 3810.189 | 1.280 | 0.00000 |
| 118. | 3810.419 | .856 | .36E-05 | 0.00 | .53E-07 | 10.140 | .48E-05 | 92.136 | .224E+03 | 71.487 | 3810.416 | .857 | 0.00000 |
| 119. | 3810.554 | .429 | .36E-05 | 0.00 | .26E-07 | 10.182 | .48E-05 | 92.149 | .112E+03 | 71.391 | 3810.554 | .430 | 0.00000 |
| 120. | 3810.600 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .48E-05 | 92.154 | 0. | 0.000 | 3810.600 | 0.000 | 0.00000 |
| 121. | 3810.554 | -.429 | .36E-05 | 0.00 | .26E-07 | -169.818 | .48E-05 | 92.149 | .112E+03 | -108.609 | 3810.554 | -.430 | 0.00000 |
| 122. | 3810.419 | -.856 | .36E-05 | 0.00 | .53E-07 | -169.860 | .48E-05 | 92.136 | .224E+03 | -108.513 | 3810.416 | -.857 | 0.00000 |
| 123. | 3810.194 | -1.279 | .36E-05 | 0.00 | .79E-07 | -169.929 | .48E-05 | 92.114 | .335E+03 | -108.354 | 3810.189 | -1.280 | 0.00000 |
| 124. | 3809.885 | -1.695 | .36E-05 | 0.00 | .10E-06 | -170.025 | .48E-05 | 92.083 | .445E+03 | -108.134 | 3809.876 | -1.696 | 0.00000 |
| 125. | 3809.496 | -2.103 | .36E-05 | 0.00 | .13E-06 | -170.148 | .48E-05 | 92.045 | .554E+03 | -107.853 | 3809.482 | -2.104 | 0.00000 |
| 126. | 3809.032 | -2.500 | .36E-05 | 0.00 | .15E-06 | -170.298 | .48E-05 | 91.999 | .661E+03 | -107.515 | 3809.012 | -2.502 | .00001 |
| 127. | 3808.500 | -2.886 | .36E-05 | 0.00 | .18E-06 | -170.474 | .48E-05 | 91.945 | .766E+03 | -107.122 | 3808.473 | -2.888 | .00001 |
| 128. | 3807.908 | -3.258 | .36E-05 | 0.00 | .20E-06 | -170.676 | .48E-05 | 91.885 | .869E+03 | -106.677 | 3807.873 | -3.260 | .00001 |
| 129. | 3807.263 | -3.616 | .36E-05 | 0.00 | .22E-06 | -170.904 | .48E-05 | 91.820 | .969E+03 | -106.182 | 3807.219 | -3.618 | .00001 |
| 130. | 3806.575 | -3.958 | .36E-05 | 0.00 | .24E-06 | -171.156 | .48E-05 | 91.749 | .107E+04 | -105.643 | 3806.521 | -3.960 | .00001 |
| 131. | 3805.852 | -4.284 | .36E-05 | 0.00 | .26E-06 | -171.432 | .48E-05 | 91.673 | .116E+04 | -105.061 | 3805.788 | -4.286 | .00002 |
| 132. | 3805.103 | -4.593 | .36E-05 | 0.00 | .28E-06 | -171.731 | .48E-05 | 91.594 | .125E+04 | -104.441 | 3805.029 | -4.595 | .00002 |
| 133. | 3804.337 | -4.885 | .36E-05 | 0.00 | .29E-06 | -172.054 | .48E-05 | 91.512 | .134E+04 | -103.787 | 3804.253 | -4.886 | .00002 |
| 134. | 3803.564 | -5.159 | .36E-05 | 0.00 | .31E-06 | -172.398 | .48E-05 | 91.426 | .143E+04 | -103.100 | 3803.469 | -5.160 | .00002 |
| 135. | 3802.792 | -5.415 | .36E-05 | 0.00 | .32E-06 | -172.762 | .48E-05 | 91.339 | .151E+04 | -102.386 | 3802.686 | -5.416 | .00003 |
| 136. | 3802.029 | -5.653 | .36E-05 | 0.00 | .34E-06 | -173.147 | .48E-05 | 91.250 | .158E+04 | -101.647 | 3801.912 | -5.654 | .00003 |
| 137. | 3801.284 | -5.874 | .36E-05 | 0.00 | .35E-06 | -173.551 | .48E-05 | 91.161 | .165E+04 | -100.886 | 3801.156 | -5.874 | .00003 |
| 138. | 3800.564 | -6.077 | .36E-05 | 0.00 | .36E-06 | -173.974 | .47E-05 | 91.070 | .172E+04 | -100.107 | 3800.425 | -6.076 | .00004 |
| 139. | 3799.876 | -6.262 | .36E-05 | 0.00 | .37E-06 | -174.413 | .47E-05 | 90.979 | .179E+04 | -99.311 | 3799.727 | -6.262 | .00004 |
| 140. | 3799.227 | -6.431 | .36E-05 | 0.00 | .38E-06 | -174.868 | .47E-05 | 90.888 | .184E+04 | -98.500 | 3799.068 | -6.430 | .00004 |
| 141. | 3798.622 | -6.582 | .36E-05 | 0.00 | .39E-06 | -175.337 | .47E-05 | 90.797 | .190E+04 | -97.678 | 3798.454 | -6.581 | .00004 |
| 142. | 3798.066 | -6.717 | .36E-05 | 0.00 | .39E-06 | -175.821 | .47E-05 | 90.707 | .194E+04 | -96.846 | 3797.890 | -6.715 | .00005 |
| 143. | 3797.565 | -6.835 | .36E-05 | 0.00 | .40E-06 | -176.316 | .47E-05 | 90.617 | .199E+04 | -96.006 | 3797.381 | -6.833 | .00005 |
| 144. | 3797.123 | -6.937 | .36E-05 | 0.00 | .41E-06 | -176.822 | .47E-05 | 90.528 | .202E+04 | -95.159 | 3796.932 | -6.934 | .00005 |
| 145. | 3796.743 | -7.022 | .36E-05 | 0.00 | .41E-06 | -177.337 | .47E-05 | 90.439 | .206E+04 | -94.307 | 3796.546 | -7.020 | .00005 |
| 146. | 3796.428 | -7.092 | .36E-05 | 0.00 | .41E-06 | -177.860 | .47E-05 | 90.350 | .208E+04 | -93.450 | 3796.225 | -7.089 | .00005 |
| 147. | 3796.180 | -7.146 | .36E-05 | 0.00 | .42E-06 | -178.389 | .47E-05 | 90.262 | .210E+04 | -92.590 | 3795.974 | -7.143 | .00005 |
| 148. | 3796.002 | -7.185 | .36E-05 | 0.00 | .42E-06 | -178.924 | .47E-05 | 90.175 | .212E+04 | -91.728 | 3795.793 | -7.182 | .00006 |
| 149. | 3795.895 | -7.208 | .36E-05 | 0.00 | .42E-06 | -179.461 | .47E-05 | 90.087 | .213E+04 | -90.864 | 3795.684 | -7.205 | .00006 |

Z-AXIS BOULE QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3795.859 | -7.216 | .36E-05 | 0.00 | .42E-06 | -180.000 | .47E-05 | 90.000 | .213E+04 | -90.000 | 3795.647 | -7.213 | .00006 |
| 151. | 3795.895 | -7.208 | .36E-05 | 0.00 | .42E-06 | 179.461 | .47E-05 | 89.913 | .213E+04 | -89.136 | 3795.684 | -7.205 | .00006 |
| 152. | 3796.002 | -7.185 | .36E-05 | 0.00 | .42E-06 | 178.924 | .47E-05 | 89.825 | .212E+04 | -88.272 | 3795.793 | -7.182 | .00006 |
| 153. | 3796.180 | -7.146 | .36E-05 | 0.00 | .42E-06 | 178.369 | .47E-05 | 89.738 | .210E+04 | -87.410 | 3795.974 | -7.143 | .00005 |
| 154. | 3796.428 | -7.092 | .36E-05 | 0.00 | .41E-06 | 177.860 | .47E-05 | 89.650 | .208E+04 | -86.550 | 3796.225 | -7.089 | .00005 |
| 155. | 3796.743 | -7.022 | .36E-05 | 0.00 | .41E-06 | 177.337 | .47E-05 | 89.561 | .206E+04 | -85.693 | 3796.546 | -7.020 | .00005 |
| 156. | 3797.123 | -6.937 | .36E-05 | 0.00 | .41E-06 | 176.822 | .47E-05 | 89.472 | .202E+04 | -84.841 | 3796.932 | -6.934 | .00005 |
| 157. | 3797.565 | -6.835 | .36E-05 | 0.00 | .40E-06 | 176.316 | .47E-05 | 89.383 | .199E+04 | -83.994 | 3797.381 | -6.833 | .00005 |
| 158. | 3798.066 | -6.717 | .36E-05 | 0.00 | .39E-06 | 175.821 | .47E-05 | 89.293 | .194E+04 | -83.154 | 3797.890 | -6.715 | .00005 |
| 159. | 3798.622 | -6.582 | .36E-05 | 0.00 | .39E-06 | 175.337 | .47E-05 | 89.203 | .190E+04 | -82.322 | 3798.454 | -6.581 | .00004 |
| 160. | 3799.227 | -6.431 | .36E-05 | 0.00 | .38E-06 | 174.868 | .47E-05 | 89.112 | .184E+04 | -81.500 | 3799.068 | -6.430 | .00004 |
| 161. | 3799.876 | -6.262 | .36E-05 | 0.00 | .37E-06 | 174.413 | .47E-05 | 89.021 | .179E+04 | -80.689 | 3799.727 | -6.262 | .00004 |
| 162. | 3800.564 | -6.077 | .36E-05 | 0.00 | .36E-06 | 173.974 | .47E-05 | 88.930 | .172E+04 | -79.893 | 3800.425 | -6.076 | .00004 |
| 163. | 3801.284 | -5.874 | .36E-05 | 0.00 | .35E-06 | 173.551 | .48E-05 | 88.839 | .165E+04 | -79.114 | 3801.156 | -5.874 | .00003 |
| 164. | 3802.029 | -5.653 | .36E-05 | 0.00 | .34E-06 | 173.147 | .48E-05 | 88.750 | .158E+04 | -78.353 | 3801.912 | -5.654 | .00003 |
| 165. | 3802.792 | -5.415 | .36E-05 | 0.00 | .32E-06 | 172.762 | .48E-05 | 88.661 | .151E+04 | -77.614 | 3802.686 | -5.416 | .00003 |
| 166. | 3803.564 | -5.159 | .36E-05 | 0.00 | .31E-06 | 172.398 | .48E-05 | 88.574 | .143E+04 | -76.900 | 3803.469 | -5.160 | .00002 |
| 167. | 3804.337 | -4.885 | .36E-05 | 0.00 | .29E-06 | 172.054 | .48E-05 | 88.488 | .134E+04 | -76.213 | 3804.253 | -4.886 | .00002 |
| 168. | 3805.103 | -4.593 | .36E-05 | 0.00 | .28E-06 | 171.731 | .48E-05 | 88.406 | .125E+04 | -75.559 | 3805.029 | -4.595 | .00002 |
| 169. | 3805.852 | -4.284 | .36E-05 | 0.00 | .26E-06 | 171.432 | .48E-05 | 88.327 | .116E+04 | -74.939 | 3805.788 | -4.286 | .00002 |
| 170. | 3806.575 | -3.958 | .36E-05 | 0.00 | .24E-06 | 171.156 | .48E-05 | 88.251 | .107E+04 | -74.357 | 3806.521 | -3.960 | .00001 |
| 171. | 3807.263 | -3.616 | .36E-05 | 0.00 | .22E-06 | 170.904 | .48E-05 | 88.180 | .969E+03 | -73.818 | 3807.219 | -3.618 | .00001 |
| 172. | 3807.908 | -3.258 | .36E-05 | 0.00 | .20E-06 | 170.676 | .48E-05 | 88.115 | .869E+03 | -73.323 | 3807.873 | -3.260 | .00001 |
| 173. | 3808.500 | -2.886 | .36E-05 | 0.00 | .18E-06 | 170.474 | .48E-05 | 88.055 | .766E+03 | -72.878 | 3808.473 | -2.888 | .00001 |
| 174. | 3809.032 | -2.500 | .36E-05 | 0.00 | .15E-06 | 170.298 | .48E-05 | 88.001 | .661E+03 | -72.485 | 3809.012 | -2.502 | .00001 |
| 175. | 3809.496 | -2.103 | .36E-05 | 0.00 | .13E-06 | 170.148 | .48E-05 | 87.955 | .554E+03 | -72.147 | 3809.482 | -2.104 | 0.00000 |
| 176. | 3809.885 | -1.695 | .36E-05 | 0.00 | .10E-06 | 170.025 | .48E-05 | 87.917 | .445E+03 | -71.866 | 3809.876 | -1.696 | 0.00000 |
| 177. | 3810.194 | -1.279 | .36E-05 | 0.00 | .79E-07 | 169.929 | .48E-05 | 87.886 | .335E+03 | -71.646 | 3810.189 | -1.280 | 0.00000 |
| 178. | 3810.419 | -.856 | .36E-05 | 0.00 | .53E-07 | 169.860 | .48E-05 | 87.864 | .224E+03 | -71.487 | 3810.416 | -.857 | 0.00000 |
| 179. | 3810.554 | -.429 | .36E-05 | 0.00 | .26E-07 | 169.818 | .48E-05 | 87.851 | .112E+03 | -71.391 | 3810.554 | -.430 | 0.00000 |
| 180. | 3810.600 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .48E-05 | 87.846 | 0. | 0.000 | 3810.600 | 0.000 | 0.00000 |

WITH EULER ANGLES 0 132.75 THETA QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3157.587 | 0.000 | .28E-05 | 0.00 | .41E-06 | 90.000 | .42E-05 | 90.000 | .689E+04 | 0.000 | 3155.754 | 0.000 | .00058 |
| 1. | 3157.769 | .378 | .28E-05 | 0.00 | .41E-06 | 93.400 | .42E-05 | 89.880 | .689E+04 | -1.862 | 3155.935 | .377 | .00058 |
| 2. | 3158.313 | .754 | .28E-05 | 0.00 | .41E-06 | 96.754 | .42E-05 | 89.759 | .689E+04 | -3.724 | 3156.478 | .752 | .00058 |
| 3. | 3159.218 | 1.127 | .28E-05 | 0.00 | .41E-06 | 100.015 | .42E-05 | 89.640 | .690E+04 | -5.584 | 3157.381 | 1.124 | .00058 |
| 4. | 3160.481 | 1.496 | .28E-05 | 0.00 | .42E-06 | 103.146 | .42E-05 | 89.521 | .690E+04 | -7.442 | 3158.640 | 1.492 | .00058 |
| 5. | 3162.097 | 1.858 | .28E-05 | 0.00 | .43E-06 | 106.112 | .42E-05 | 89.403 | .691E+04 | -9.298 | 3160.251 | 1.854 | .00058 |
| 6. | 3164.060 | 2.214 | .28E-05 | 0.00 | .44E-06 | 108.887 | .42E-05 | 89.286 | .692E+04 | -11.150 | 3162.209 | 2.209 | .00059 |
| 7. | 3166.364 | 2.560 | .28E-05 | 0.00 | .45E-06 | 111.453 | .42E-05 | 89.171 | .693E+04 | -12.998 | 3164.506 | 2.554 | .00059 |
| 8. | 3168.999 | 2.896 | .27E-05 | 0.00 | .46E-06 | 113.796 | .42E-05 | 89.057 | .694E+04 | -14.842 | 3167.133 | 2.889 | .00059 |
| 9. | 3171.956 | 3.219 | .27E-05 | 0.00 | .48E-06 | 115.910 | .42E-05 | 88.946 | .695E+04 | -16.682 | 3170.081 | 3.211 | .00059 |
| 10. | 3175.222 | 3.529 | .27E-05 | 0.00 | .49E-06 | 117.791 | .42E-05 | 88.837 | .697E+04 | -18.516 | 3173.337 | 3.520 | .00059 |
| 11. | 3178.786 | 3.823 | .27E-05 | 0.00 | .51E-06 | 119.440 | .42E-05 | 88.731 | .698E+04 | -20.345 | 3176.890 | 3.813 | .00060 |
| 12. | 3182.632 | 4.100 | .27E-05 | 0.00 | .52E-06 | 120.860 | .42E-05 | 88.627 | .700E+04 | -22.168 | 3180.723 | 4.089 | .00060 |
| 13. | 3186.743 | 4.358 | .27E-05 | 0.00 | .54E-06 | 122.053 | .42E-05 | 88.528 | .702E+04 | -23.985 | 3184.821 | 4.346 | .00060 |
| 14. | 3191.102 | 4.594 | .27E-05 | 0.00 | .56E-06 | 123.025 | .42E-05 | 88.432 | .704E+04 | -25.796 | 3189.165 | 4.581 | .00061 |
| 15. | 3195.687 | 4.808 | .26E-05 | 0.00 | .58E-06 | 123.780 | .41E-05 | 88.340 | .707E+04 | -27.601 | 3193.734 | 4.793 | .00061 |
| 16. | 3200.476 | 4.995 | .26E-05 | 0.00 | .60E-06 | 124.321 | .41E-05 | 88.253 | .709E+04 | -29.399 | 3198.505 | 4.980 | .00062 |
| 17. | 3205.443 | 5.155 | .26E-05 | 0.00 | .62E-06 | 124.653 | .41E-05 | 88.172 | .712E+04 | -31.192 | 3203.453 | 5.138 | .00062 |
| 18. | 3210.561 | 5.284 | .26E-05 | 0.00 | .64E-06 | 124.778 | .41E-05 | 88.096 | .715E+04 | -32.978 | 3208.550 | 5.266 | .00063 |
| 19. | 3215.797 | 5.379 | .26E-05 | 0.00 | .66E-06 | 124.701 | .41E-05 | 88.026 | .718E+04 | -34.757 | 3213.764 | 5.359 | .00063 |
| 20. | 3221.118 | 5.437 | .25E-05 | 0.00 | .68E-06 | 124.424 | .41E-05 | 87.963 | .722E+04 | -36.530 | 3219.062 | 5.415 | .00064 |
| 21. | 3226.485 | 5.454 | .25E-05 | 0.00 | .71E-06 | 123.951 | .40E-05 | 87.907 | .726E+04 | -38.296 | 3224.403 | 5.431 | .00065 |
| 22. | 3231.857 | 5.426 | .25E-05 | 0.00 | .73E-06 | 123.287 | .40E-05 | 87.859 | .730E+04 | -40.055 | 3229.747 | 5.401 | .00065 |
| 23. | 3237.185 | 5.349 | .25E-05 | 0.00 | .76E-06 | 122.440 | .40E-05 | 87.819 | .734E+04 | -41.806 | 3235.046 | 5.322 | .00066 |
| 24. | 3242.418 | 5.217 | .24E-05 | 0.00 | .79E-06 | 121.418 | .40E-05 | 87.788 | .739E+04 | -43.548 | 3240.248 | 5.189 | .00067 |
| 25. | 3247.500 | 5.027 | .24E-05 | 0.00 | .82E-06 | 120.236 | .39E-05 | 87.765 | .743E+04 | -45.281 | 3245.297 | 4.997 | .00068 |
| 26. | 3252.368 | 4.774 | .24E-05 | 0.00 | .86E-06 | 118.911 | .39E-05 | 87.750 | .748E+04 | -47.003 | 3250.132 | 4.742 | .00069 |
| 27. | 3256.957 | 4.453 | .23E-05 | 0.00 | .90E-06 | 117.465 | .39E-05 | 87.744 | .753E+04 | -48.714 | 3254.687 | 4.421 | .00070 |
| 28. | 3261.197 | 4.062 | .23E-05 | 0.00 | .94E-06 | 115.924 | .38E-05 | 87.743 | .759E+04 | -50.412 | 3258.892 | 4.030 | .00071 |
| 29. | 3265.017 | 3.601 | .23E-05 | 0.00 | .99E-06 | 114.319 | .38E-05 | 87.747 | .764E+04 | -52.096 | 3262.678 | 3.571 | .00072 |
| 30. | 3268.347 | 3.073 | .22E-05 | 0.00 | .10E-05 | 112.683 | .37E-05 | 87.752 | .768E+04 | -53.766 | 3265.977 | 3.046 | .00073 |
| 31. | 3271.123 | 2.489 | .21E-05 | 0.00 | .11E-05 | 111.049 | .37E-05 | 87.752 | .772E+04 | -55.423 | 3268.726 | 2.466 | .00073 |
| 32. | 3273.296 | 1.863 | .21E-05 | 0.00 | .12E-05 | 109.447 | .36E-05 | 87.742 | .775E+04 | -57.069 | 3270.878 | 1.848 | .00074 |
| 33. | 3274.835 | 1.223 | .20E-05 | 0.00 | .12E-05 | 107.899 | .36E-05 | 87.712 | .777E+04 | -58.710 | 3272.405 | 1.216 | .00074 |
| 34. | 3275.741 | .600 | .20E-05 | 0.00 | .13E-05 | 106.420 | .35E-05 | 87.651 | .777E+04 | -60.354 | 3273.310 | .605 | .00074 |
| 35. | 3276.053 | .038 | .19E-05 | 0.00 | .14E-05 | 105.011 | .34E-05 | 87.544 | .775E+04 | -62.014 | 3273.633 | .056 | .00074 |
| 36. | 3275.852 | -.419 | .19E-05 | 0.00 | .14E-05 | 103.664 | .33E-05 | 87.378 | .770E+04 | -63.704 | 3273.458 | -.386 | .00073 |
| 37. | 3275.267 | -.724 | .18E-05 | 0.00 | .15E-05 | 102.354 | .32E-05 | 87.135 | .764E+04 | -65.446 | 3272.915 | -.676 | .00072 |
| 38. | 3274.470 | -.840 | .17E-05 | 0.00 | .16E-05 | 101.050 | .31E-05 | 86.801 | .755E+04 | -67.260 | 3272.172 | -.779 | .00070 |
| 39. | 3273.664 | -.739 | .17E-05 | 0.00 | .16E-05 | 99.713 | .31E-05 | 86.362 | .744E+04 | -69.169 | 3271.434 | -.667 | .00068 |
| 40. | 3273.072 | -.411 | .16E-05 | 0.00 | .17E-05 | 98.303 | .30E-05 | 85.809 | .731E+04 | -71.194 | 3270.919 | -.330 | .00066 |
| 41. | 3272.919 | .140 | .16E-05 | 0.00 | .17E-05 | 96.780 | .29E-05 | 85.138 | .716E+04 | -73.350 | 3270.850 | .227 | .00063 |
| 42. | 3273.419 | .894 | .15E-05 | 0.00 | .17E-05 | 95.109 | .29E-05 | 84.353 | .701E+04 | -75.646 | 3271.437 | .983 | .00061 |
| 43. | 3274.758 | 1.817 | .15E-05 | 0.00 | .18E-05 | 93.262 | .28E-05 | 83.463 | .685E+04 | -78.082 | 3272.866 | 1.908 | .00058 |
| 44. | 3277.089 | 2.869 | .15E-05 | 0.00 | .18E-05 | 91.218 | .28E-05 | 82.484 | .668E+04 | -80.648 | 3275.286 | 2.958 | .00055 |
| 45. | 3280.520 | 4.002 | .15E-05 | 0.00 | .18E-05 | 88.963 | .27E-05 | 81.441 | .652E+04 | -83.324 | 3278.803 | 4.088 | .00052 |
| 46. | 3285.113 | 5.164 | .15E-05 | 0.00 | .18E-05 | 86.491 | .27E-05 | 80.363 | .636E+04 | -86.081 | 3283.478 | 5.247 | .00050 |
| 47. | 3290.880 | 6.305 | .15E-05 | 0.00 | .18E-05 | 83.802 | .28E-05 | 79.282 | .620E+04 | -88.878 | 3289.323 | 6.383 | .00047 |
| 48. | 3297.785 | 7.376 | .15E-05 | 0.00 | .18E-05 | 80.902 | .28E-05 | 78.232 | .604E+04 | -91.667 | 3296.303 | 7.450 | .00045 |
| 49. | 3305.746 | 8.333 | .15E-05 | 0.00 | .18E-05 | 77.801 | .28E-05 | 77.245 | .589E+04 | -94.398 | 3304.334 | 8.403 | .00043 |

WITH EULER ANGLES 0 132.75 THETA QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | D///INF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3314.638 | 9.139 | .16E-05 | 0.00 | .18E-05 | 74.512 | .29E-05 | 76.351 | .574E+04 | -97.016 | 3313.293 | 9.206 | .00041 |
| 51. | 3324.301 | 9.768 | .16E-05 | 0.00 | .17E-05 | 71.057 | .29E-05 | 75.569 | .560E+04 | -99.467 | 3323.019 | 9.831 | .00039 |
| 52. | 3334.549 | 10.203 | .17E-05 | 0.00 | .17E-05 | 67.462 | .30E-05 | 74.915 | .546E+04 | -101.705 | 3333.329 | 10.264 | .00037 |
| 53. | 3345.182 | 10.441 | .18E-05 | 0.00 | .17E-05 | 63.765 | .31E-05 | 74.394 | .531E+04 | -103.690 | 3344.022 | 10.501 | .00035 |
| 54. | 3356.000 | 10.490 | .18E-05 | 0.00 | .16E-05 | 60.009 | .32E-05 | 74.002 | .517E+04 | -105.395 | 3354.899 | 10.549 | .00033 |
| 55. | 3366.814 | 10.372 | .19E-05 | 0.00 | .16E-05 | 56.248 | .32E-05 | 73.730 | .502E+04 | -106.804 | 3365.772 | 10.430 | .00031 |
| 56. | 3377.459 | 10.113 | .20E-05 | 0.00 | .16E-05 | 52.535 | .33E-05 | 73.564 | .487E+04 | -107.917 | 3376.475 | 10.170 | .00029 |
| 57. | 3387.803 | 9.747 | .21E-05 | 0.00 | .15E-05 | 48.928 | .34E-05 | 73.487 | .472E+04 | -108.743 | 3386.876 | 9.803 | .00027 |
| 58. | 3397.747 | 9.307 | .22E-05 | 0.00 | .15E-05 | 45.474 | .35E-05 | 73.482 | .457E+04 | -109.305 | 3396.876 | 9.362 | .00026 |
| 59. | 3407.224 | 8.823 | .23E-05 | 0.00 | .15E-05 | 42.213 | .36E-05 | 73.532 | .442E+04 | -109.629 | 3406.408 | 8.875 | .00024 |
| 60. | 3416.200 | 8.319 | .23E-05 | 0.00 | .14E-05 | 39.171 | .36E-05 | 73.624 | .427E+04 | -109.748 | 3415.436 | 8.369 | .00022 |
| 61. | 3424.660 | 7.814 | .24E-05 | 0.00 | .14E-05 | 36.363 | .37E-05 | 73.745 | .412E+04 | -109.695 | 3423.947 | 7.863 | .00021 |
| 62. | 3432.609 | 7.323 | .25E-05 | 0.00 | .13E-05 | 33.792 | .37E-05 | 73.884 | .397E+04 | -109.503 | 3431.945 | 7.369 | .00019 |
| 63. | 3440.064 | 6.852 | .25E-05 | 0.00 | .13E-05 | 31.454 | .38E-05 | 74.036 | .382E+04 | -109.201 | 3439.446 | 6.896 | .00018 |
| 64. | 3447.047 | 6.407 | .26E-05 | 0.00 | .13E-05 | 29.338 | .39E-05 | 74.193 | .368E+04 | -108.817 | 3446.473 | 6.449 | .00017 |
| 65. | 3453.585 | 5.989 | .26E-05 | 0.00 | .12E-05 | 27.430 | .39E-05 | 74.351 | .354E+04 | -108.373 | 3453.053 | 6.029 | .00015 |
| 66. | 3459.704 | 5.598 | .27E-05 | 0.00 | .12E-05 | 25.713 | .39E-05 | 74.507 | .340E+04 | -107.889 | 3459.212 | 5.636 | .00014 |
| 67. | 3465.431 | 5.233 | .27E-05 | 0.00 | .12E-05 | 24.171 | .40E-05 | 74.659 | .326E+04 | -107.380 | 3464.977 | 5.269 | .00013 |
| 68. | 3470.792 | 4.892 | .28E-05 | 0.00 | .11E-05 | 22.787 | .40E-05 | 74.806 | .313E+04 | -106.861 | 3470.374 | 4.926 | .00012 |
| 69. | 3475.808 | 4.572 | .28E-05 | 0.00 | .11E-05 | 21.545 | .40E-05 | 74.946 | .299E+04 | -106.341 | 3475.425 | 4.604 | .00011 |
| 70. | 3480.500 | 4.271 | .28E-05 | 0.00 | .10E-05 | 20.431 | .40E-05 | 75.079 | .286E+04 | -105.827 | 3480.150 | 4.302 | .00010 |
| 71. | 3484.887 | 3.987 | .29E-05 | 0.00 | .97E-06 | 19.432 | .41E-05 | 75.204 | .272E+04 | -105.327 | 3484.569 | 4.017 | .00009 |
| 72. | 3488.984 | 3.718 | .29E-05 | 0.00 | .93E-06 | 18.536 | .41E-05 | 75.322 | .259E+04 | -104.845 | 3488.696 | 3.746 | .00008 |
| 73. | 3492.805 | 3.462 | .29E-05 | 0.00 | .88E-06 | 17.732 | .41E-05 | 75.432 | .245E+04 | -104.385 | 3492.547 | 3.489 | .00007 |
| 74. | 3496.363 | 3.217 | .30E-05 | 0.00 | .83E-06 | 17.012 | .41E-05 | 75.534 | .231E+04 | -103.948 | 3496.132 | 3.242 | .00007 |
| 75. | 3499.668 | 2.981 | .30E-05 | 0.00 | .78E-06 | 16.367 | .41E-05 | 75.629 | .218E+04 | -103.537 | 3499.463 | 3.006 | .00006 |
| 76. | 3502.728 | 2.754 | .30E-05 | 0.00 | .73E-06 | 15.789 | .42E-05 | 75.717 | .204E+04 | -103.153 | 3502.549 | 2.777 | .00005 |
| 77. | 3505.552 | 2.534 | .30E-05 | 0.00 | .68E-06 | 15.274 | .42E-05 | 75.797 | .190E+04 | -102.796 | 3505.396 | 2.556 | .00004 |
| 78. | 3508.147 | 2.321 | .31E-05 | 0.00 | .63E-06 | 14.814 | .42E-05 | 75.871 | .176E+04 | -102.467 | 3508.013 | 2.341 | .00004 |
| 79. | 3510.517 | 2.112 | .31E-05 | 0.00 | .58E-06 | 14.406 | .42E-05 | 75.938 | .162E+04 | -102.165 | 3510.403 | 2.131 | .00003 |
| 80. | 3512.667 | 1.908 | .31E-05 | 0.00 | .53E-06 | 14.045 | .42E-05 | 75.998 | .147E+04 | -101.892 | 3512.573 | 1.925 | .00003 |
| 81. | 3514.603 | 1.708 | .31E-05 | 0.00 | .48E-06 | 13.728 | .42E-05 | 76.052 | .133E+04 | -101.645 | 3514.526 | 1.723 | .00002 |
| 82. | 3516.326 | 1.511 | .31E-05 | 0.00 | .43E-06 | 13.452 | .42E-05 | 76.100 | .119E+04 | -101.426 | 3516.265 | 1.525 | .00002 |
| 83. | 3517.841 | 1.317 | .31E-05 | 0.00 | .37E-06 | 13.214 | .42E-05 | 76.142 | .104E+04 | -101.234 | 3517.794 | 1.329 | .00001 |
| 84. | 3519.150 | 1.125 | .31E-05 | 0.00 | .32E-06 | 13.012 | .42E-05 | 76.178 | .893E+03 | -101.068 | 3519.115 | 1.135 | .00001 |
| 85. | 3520.253 | .935 | .31E-05 | 0.00 | .27E-06 | 12.844 | .42E-05 | 76.208 | .746E+03 | -100.928 | 3520.229 | .944 | .00001 |
| 86. | 3521.155 | .746 | .32E-05 | 0.00 | .21E-06 | 12.708 | .42E-05 | 76.233 | .597E+03 | -100.814 | 3521.139 | .753 | 0.00000 |
| 87. | 3521.854 | .559 | .32E-05 | 0.00 | .16E-06 | 12.604 | .42E-05 | 76.252 | .449E+03 | -100.726 | 3521.845 | .564 | 0.00000 |
| 88. | 3522.353 | .372 | .32E-05 | 0.00 | .11E-06 | 12.530 | .42E-05 | 76.266 | .299E+03 | -100.663 | 3522.349 | .376 | 0.00000 |
| 89. | 3522.652 | .186 | .32E-05 | 0.00 | .54E-07 | 12.486 | .42E-05 | 76.274 | .150E+03 | -100.625 | 3522.651 | .188 | 0.00000 |
| 90. | 3522.752 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .42E-05 | 76.277 | 0. | 0.000 | 3522.752 | 0.000 | 0.00000 |
| 91. | 3522.652 | -.186 | .32E-05 | 0.00 | .54E-07 | -167.514 | .42E-05 | 76.274 | .150E+03 | 79.375 | 3522.651 | -.188 | 0.00000 |
| 92. | 3522.353 | -.372 | .32E-05 | 0.00 | .11E-06 | -167.470 | .42E-05 | 76.266 | .299E+03 | 79.337 | 3522.349 | -.376 | 0.00000 |
| 93. | 3521.854 | -.559 | .32E-05 | 0.00 | .16E-06 | -167.396 | .42E-05 | 76.252 | .449E+03 | 79.274 | 3521.845 | -.564 | 0.00000 |
| 94. | 3521.155 | -.746 | .32E-05 | 0.00 | .21E-06 | -167.292 | .42E-05 | 76.233 | .597E+03 | 79.186 | 3521.139 | -.753 | 0.00000 |
| 95. | 3520.253 | -.935 | .31E-05 | 0.00 | .27E-06 | -167.156 | .42E-05 | 76.208 | .746E+03 | 79.072 | 3520.229 | -.944 | .00001 |
| 96. | 3519.150 | -1.125 | .31E-05 | 0.00 | .32E-06 | -166.988 | .42E-05 | 76.178 | .893E+03 | 78.932 | 3519.115 | -1.135 | .00001 |
| 97. | 3517.841 | -1.317 | .31E-05 | 0.00 | .37E-06 | -166.786 | .42E-05 | 76.142 | .104E+04 | 78.766 | 3517.794 | -1.329 | .00001 |
| 98. | 3516.326 | -1.511 | .31E-05 | 0.00 | .43E-06 | -166.548 | .42E-05 | 76.100 | .119E+04 | 78.574 | 3516.265 | -1.525 | .00002 |
| 99. | 3514.603 | -1.708 | .31E-05 | 0.00 | .48E-06 | -166.272 | .42E-05 | 76.052 | .133E+04 | 78.355 | 3514.526 | -1.723 | .00002 |

WITH EULER ANGLES 0 132.75 THETA QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3512.667 | -1.908 | .31E-05 | 0.00 | .53E-06 | -165.955 | .42E-05 | 75.998 | .147E+04 | 78.108 | 3512.573 | -1.925 | .00003 |
| 101. | 3510.517 | -2.112 | .31E-05 | 0.00 | .58E-06 | -165.594 | .42E-05 | 75.938 | .162E+04 | 77.835 | 3510.403 | -2.131 | .00003 |
| 102. | 3508.147 | -2.321 | .31E-05 | 0.00 | .63E-06 | -165.186 | .42E-05 | 75.871 | .176E+04 | 77.533 | 3508.013 | -2.341 | .00004 |
| 103. | 3505.552 | -2.534 | .30E-05 | 0.00 | .68E-06 | -164.726 | .42E-05 | 75.797 | .190E+04 | 77.204 | 3505.396 | -2.556 | .00004 |
| 104. | 3502.728 | -2.754 | .30E-05 | 0.00 | .73E-06 | -164.211 | .42E-05 | 75.717 | .204E+04 | 76.847 | 3502.549 | -2.777 | .00005 |
| 105. | 3499.668 | -2.981 | .30E-05 | 0.00 | .78E-06 | -163.633 | .41E-05 | 75.629 | .218E+04 | 76.463 | 3499.463 | -3.006 | .00006 |
| 106. | 3496.363 | -3.217 | .30E-05 | 0.00 | .83E-06 | -162.988 | .41E-05 | 75.534 | .231E+04 | 76.052 | 3496.132 | -3.242 | .00007 |
| 107. | 3492.805 | -3.462 | .29E-05 | 0.00 | .88E-06 | -162.268 | .41E-05 | 75.432 | .245E+04 | 75.615 | 3492.547 | -3.489 | .00007 |
| 108. | 3488.984 | -3.718 | .29E-05 | 0.00 | .93E-06 | -161.464 | .41E-05 | 75.322 | .259E+04 | 75.155 | 3488.696 | -3.746 | .00008 |
| 109. | 3484.887 | -3.987 | .29E-05 | 0.00 | .97E-06 | -160.568 | .41E-05 | 75.204 | .272E+04 | 74.673 | 3484.569 | -4.017 | .00009 |
| 110. | 3480.500 | -4.271 | .28E-05 | 0.00 | .10E-05 | -159.569 | .40E-05 | 75.079 | .286E+04 | 74.173 | 3480.150 | -4.302 | .00010 |
| 111. | 3475.808 | -4.572 | .28E-05 | 0.00 | .11E-05 | -158.455 | .40E-05 | 74.946 | .299E+04 | 73.659 | 3475.425 | -4.604 | .00011 |
| 112. | 3470.792 | -4.892 | .28E-05 | 0.00 | .11E-05 | -157.213 | .40E-05 | 74.806 | .313E+04 | 73.139 | 3470.374 | -4.926 | .00012 |
| 113. | 3465.431 | -5.233 | .27E-05 | 0.00 | .12E-05 | -155.829 | .40E-05 | 74.659 | .326E+04 | 72.620 | 3464.977 | -5.269 | .00013 |
| 114. | 3459.704 | -5.598 | .27E-05 | 0.00 | .12E-05 | -154.287 | .39E-05 | 74.507 | .340E+04 | 72.111 | 3459.212 | -5.636 | .00014 |
| 115. | 3453.585 | -5.989 | .26E-05 | 0.00 | .12E-05 | -152.570 | .39E-05 | 74.351 | .354E+04 | 71.627 | 3453.053 | -6.029 | .00015 |
| 116. | 3447.047 | -6.407 | .26E-05 | 0.00 | .13E-05 | -150.662 | .39E-05 | 74.193 | .368E+04 | 71.183 | 3446.473 | -6.449 | .00017 |
| 117. | 3440.064 | -6.852 | .25E-05 | 0.00 | .13E-05 | -148.546 | .38E-05 | 74.036 | .382E+04 | 70.799 | 3439.446 | -6.896 | .00018 |
| 118. | 3432.609 | -7.323 | .25E-05 | 0.00 | .13E-05 | -146.208 | .37E-05 | 73.884 | .397E+04 | 70.497 | 3431.945 | -7.369 | .00019 |
| 119. | 3424.660 | -7.814 | .24E-05 | 0.00 | .14E-05 | -143.637 | .37E-05 | 73.745 | .412E+04 | 70.305 | 3423.947 | -7.863 | .00021 |
| 120. | 3416.200 | -8.319 | .23E-05 | 0.00 | .14E-05 | -140.829 | .36E-05 | 73.624 | .427E+04 | 70.252 | 3415.436 | -8.369 | .00022 |
| 121. | 3407.224 | -8.823 | .23E-05 | 0.00 | .15E-05 | -137.787 | .36E-05 | 73.532 | .442E+04 | 70.371 | 3406.408 | -8.875 | .00024 |
| 122. | 3397.747 | -9.307 | .22E-05 | 0.00 | .15E-05 | -134.526 | .35E-05 | 73.482 | .457E+04 | 70.695 | 3396.876 | -9.362 | .00026 |
| 123. | 3387.803 | -9.747 | .21E-05 | 0.00 | .15E-05 | -131.072 | .34E-05 | 73.487 | .472E+04 | 71.257 | 3386.876 | -9.803 | .00027 |
| 124. | 3377.459 | -10.113 | .20E-05 | 0.00 | .16E-05 | -127.465 | .33E-05 | 73.564 | .487E+04 | 72.083 | 3376.475 | -10.170 | .00029 |
| 125. | 3366.814 | -10.372 | .19E-05 | 0.00 | .16E-05 | -123.752 | .32E-05 | 73.730 | .502E+04 | 73.196 | 3365.772 | -10.430 | .00031 |
| 126. | 3356.000 | -10.490 | .18E-05 | 0.00 | .16E-05 | -119.991 | .32E-05 | 74.002 | .517E+04 | 74.605 | 3354.899 | -10.549 | .00033 |
| 127. | 3345.182 | -10.441 | .18E-05 | 0.00 | .17E-05 | -116.235 | .31E-05 | 74.394 | .531E+04 | 76.310 | 3344.022 | -10.501 | .00035 |
| 128. | 3334.549 | -10.203 | .17E-05 | 0.00 | .17E-05 | -112.538 | .30E-05 | 74.915 | .546E+04 | 78.295 | 3333.329 | -10.264 | .00037 |
| 129. | 3324.301 | -9.768 | .16E-05 | 0.00 | .17E-05 | -108.943 | .29E-05 | 75.569 | .560E+04 | 80.533 | 3323.019 | -9.831 | .00039 |
| 130. | 3314.638 | -9.139 | .16E-05 | 0.00 | .18E-05 | -105.488 | .29E-05 | 76.351 | .574E+04 | 82.984 | 3313.293 | -9.206 | .00041 |
| 131. | 3305.746 | -8.333 | .15E-05 | 0.00 | .18E-05 | -102.199 | .28E-05 | 77.245 | .589E+04 | 85.602 | 3304.334 | -8.403 | .00043 |
| 132. | 3297.785 | -7.376 | .15E-05 | 0.00 | .18E-05 | -99.098 | .28E-05 | 78.232 | .604E+04 | 88.333 | 3296.303 | -7.450 | .00045 |
| 133. | 3290.880 | -6.305 | .15E-05 | 0.00 | .18E-05 | -96.198 | .28E-05 | 79.282 | .620E+04 | 91.122 | 3289.323 | -6.383 | .00047 |
| 134. | 3285.113 | -5.164 | .15E-05 | 0.00 | .18E-05 | -93.509 | .27E-05 | 80.363 | .636E+04 | 93.919 | 3283.478 | -5.247 | .00050 |
| 135. | 3280.520 | -4.002 | .15E-05 | 0.00 | .18E-05 | -91.037 | .27E-05 | 81.441 | .652E+04 | 96.676 | 3278.803 | -4.088 | .00052 |
| 136. | 3277.089 | -2.869 | .15E-05 | 0.00 | .18E-05 | -88.782 | .28E-05 | 82.484 | .668E+04 | 99.352 | 3275.286 | -2.958 | .00055 |
| 137. | 3274.758 | -1.817 | .15E-05 | 0.00 | .18E-05 | -86.738 | .28E-05 | 83.463 | .685E+04 | 101.918 | 3272.866 | -1.908 | .00058 |
| 138. | 3273.419 | -.894 | .15E-05 | 0.00 | .17E-05 | -84.891 | .29E-05 | 84.353 | .701E+04 | 104.354 | 3271.437 | -.983 | .00061 |
| 139. | 3272.919 | -.140 | .16E-05 | 0.00 | .17E-05 | -83.220 | .29E-05 | 85.138 | .716E+04 | 106.650 | 3270.850 | -.227 | .00063 |
| 140. | 3273.072 | .411 | .16E-05 | 0.00 | .17E-05 | -81.697 | .30E-05 | 85.809 | .731E+04 | 108.806 | 3270.919 | .330 | .00066 |
| 141. | 3273.664 | .739 | .17E-05 | 0.00 | .16E-05 | -80.287 | .31E-05 | 86.362 | .744E+04 | 110.831 | 3271.434 | .667 | .00068 |
| 142. | 3274.470 | .840 | .17E-05 | 0.00 | .16E-05 | -78.950 | .31E-05 | 86.801 | .755E+04 | 112.740 | 3272.172 | .779 | .00070 |
| 143. | 3275.267 | .724 | .18E-05 | 0.00 | .15E-05 | -77.646 | .32E-05 | 87.135 | .764E+04 | 114.554 | 3272.915 | .676 | .00072 |
| 144. | 3275.852 | .419 | .19E-05 | 0.00 | .14E-05 | -76.336 | .33E-05 | 87.378 | .770E+04 | 116.296 | 3273.458 | .386 | .00073 |
| 145. | 3276.053 | -.038 | .19E-05 | 0.00 | .14E-05 | -74.989 | .34E-05 | 87.544 | .775E+04 | 117.986 | 3273.633 | -.056 | .00074 |
| 146. | 3275.741 | -.600 | .20E-05 | 0.00 | .13E-05 | -73.580 | .35E-05 | 87.651 | .777E+04 | 119.646 | 3273.310 | -.605 | .00074 |
| 147. | 3274.835 | -1.223 | .20E-05 | 0.00 | .12E-05 | -72.101 | .36E-05 | 87.712 | .777E+04 | 121.290 | 3272.405 | -1.216 | .00074 |
| 148. | 3273.296 | -1.863 | .21E-05 | 0.00 | .12E-05 | -70.553 | .36E-05 | 87.742 | .775E+04 | 122.931 | 3270.878 | -1.848 | .00074 |
| 149. | 3271.123 | -2.489 | .21E-05 | 0.00 | .11E-05 | -68.951 | .37E-05 | 87.752 | .772E+04 | 124.577 | 3268.726 | -2.466 | .00073 |

WITH EULER ANGLES 0 132.75 THETA QUARTZ

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3268.347 | -3.073 | .22E-05 | 0.00 | .10E-05 | -67.317 | .37E-05 | 87.752 | .768E+04 | 126.234 | 3265.977 | -3.046 | .00073 |
| 151. | 3265.017 | -3.601 | .23E-05 | 0.00 | .99E-06 | -65.681 | .38E-05 | 87.747 | .764E+04 | 127.904 | 3262.678 | -3.571 | .00072 |
| 152. | 3261.197 | -4.062 | .23E-05 | 0.00 | .94E-06 | -64.076 | .38E-05 | 87.743 | .759E+04 | 129.588 | 3258.892 | -4.030 | .00071 |
| 153. | 3256.957 | -4.453 | .23E-05 | 0.00 | .90E-06 | -62.535 | .39E-05 | 87.744 | .753E+04 | 131.286 | 3254.687 | -4.421 | .00070 |
| 154. | 3252.368 | -4.774 | .24E-05 | 0.00 | .86E-06 | -61.089 | .39E-05 | 87.750 | .748E+04 | 132.997 | 3250.132 | -4.742 | .00069 |
| 155. | 3247.500 | -5.027 | .24E-05 | 0.00 | .82E-06 | -59.764 | .39E-05 | 87.765 | .743E+04 | 134.719 | 3245.297 | -4.997 | .00068 |
| 156. | 3242.418 | -5.217 | .24E-05 | 0.00 | .79E-06 | -58.582 | .40E-05 | 87.788 | .739E+04 | 136.452 | 3240.248 | -5.189 | .00067 |
| 157. | 3237.185 | -5.349 | .25E-05 | 0.00 | .76E-06 | -57.560 | .40E-05 | 87.819 | .734E+04 | 138.194 | 3235.046 | -5.322 | .00066 |
| 158. | 3231.857 | -5.426 | .25E-05 | 0.00 | .73E-06 | -56.713 | .40E-05 | 87.859 | .730E+04 | 139.945 | 3229.747 | -5.401 | .00065 |
| 159. | 3226.485 | -5.454 | .25E-05 | 0.00 | .71E-06 | -56.049 | .40E-05 | 87.907 | .726E+04 | 141.704 | 3224.403 | -5.431 | .00065 |
| 160. | 3221.118 | -5.437 | .25E-05 | 0.00 | .68E-06 | -55.576 | .41E-05 | 87.963 | .722E+04 | 143.470 | 3219.062 | -5.415 | .00064 |
| 161. | 3215.797 | -5.379 | .26E-05 | 0.00 | .66E-06 | -55.299 | .41E-05 | 88.026 | .718E+04 | 145.243 | 3213.764 | -5.359 | .00063 |
| 162. | 3210.561 | -5.284 | .26E-05 | 0.00 | .64E-06 | -55.222 | .41E-05 | 88.096 | .715E+04 | 147.022 | 3208.550 | -5.266 | .00063 |
| 163. | 3205.443 | -5.155 | .26E-05 | 0.00 | .62E-06 | -55.347 | .41E-05 | 88.172 | .712E+04 | 148.808 | 3203.453 | -5.138 | .00062 |
| 164. | 3200.476 | -4.995 | .26E-05 | 0.00 | .60E-06 | -55.679 | .41E-05 | 88.253 | .709E+04 | 150.601 | 3198.505 | -4.980 | .00062 |
| 165. | 3195.687 | -4.808 | .26E-05 | 0.00 | .58E-06 | -56.220 | .41E-05 | 88.340 | .707E+04 | 152.399 | 3193.734 | -4.793 | .00061 |
| 166. | 3191.102 | -4.594 | .27E-05 | 0.00 | .56E-06 | -56.975 | .42E-05 | 88.432 | .704E+04 | 154.204 | 3189.165 | -4.581 | .00061 |
| 167. | 3186.743 | -4.358 | .27E-05 | 0.00 | .54E-06 | -57.947 | .42E-05 | 88.528 | .702E+04 | 156.015 | 3184.821 | -4.346 | .00060 |
| 168. | 3182.632 | -4.100 | .27E-05 | 0.00 | .52E-06 | -59.140 | .42E-05 | 88.627 | .700E+04 | 157.832 | 3180.723 | -4.089 | .00060 |
| 169. | 3178.786 | -3.823 | .27E-05 | 0.00 | .51E-06 | -60.560 | .42E-05 | 88.731 | .698E+04 | 159.655 | 3176.890 | -3.813 | .00060 |
| 170. | 3175.222 | -3.529 | .27E-05 | 0.00 | .49E-06 | -62.209 | .42E-05 | 88.837 | .697E+04 | 161.484 | 3173.337 | -3.520 | .00059 |
| 171. | 3171.956 | -3.219 | .27E-05 | 0.00 | .48E-06 | -64.090 | .42E-05 | 88.946 | .695E+04 | 163.318 | 3170.081 | -3.211 | .00059 |
| 172. | 3168.999 | -2.896 | .27E-05 | 0.00 | .46E-06 | -66.204 | .42E-05 | 89.057 | .694E+04 | 165.158 | 3167.133 | -2.889 | .00059 |
| 173. | 3166.364 | -2.560 | .28E-05 | 0.00 | .45E-06 | -68.547 | .42E-05 | 89.171 | .693E+04 | 167.002 | 3164.506 | -2.554 | .00059 |
| 174. | 3164.060 | -2.214 | .28E-05 | 0.00 | .44E-06 | -71.113 | .42E-05 | 89.286 | .692E+04 | 168.850 | 3162.209 | -2.209 | .00059 |
| 175. | 3162.097 | -1.858 | .28E-05 | 0.00 | .43E-06 | -73.888 | .42E-05 | 89.403 | .691E+04 | 170.702 | 3160.251 | -1.854 | .00058 |
| 176. | 3160.481 | -1.496 | .28E-05 | 0.00 | .42E-06 | -76.854 | .42E-05 | 89.521 | .690E+04 | 172.558 | 3158.640 | -1.492 | .00058 |
| 177. | 3159.218 | -1.127 | .28E-05 | 0.00 | .41E-06 | -79.985 | .42E-05 | 89.640 | .690E+04 | 174.416 | 3157.381 | -1.124 | .00058 |
| 178. | 3158.313 | -.754 | .28E-05 | 0.00 | .41E-06 | -83.246 | .42E-05 | 89.759 | .689E+04 | 176.276 | 3156.478 | -.752 | .00058 |
| 179. | 3157.769 | -.378 | .28E-05 | 0.00 | .41E-06 | -86.600 | .42E-05 | 89.880 | .689E+04 | 178.138 | 3155.935 | -.377 | .00058 |
| 180. | 3157.587 | 0.000 | .28E-05 | 0.00 | .41E-06 | -90.000 | .42E-05 | 90.000 | .689E+04 | 180.000 | 3155.754 | 0.000 | .00058 |

X-CUT RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4144.035 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 1. | 4144.289 | .402 | .23E-05 | 0.00 | .33E-08 | -180.000 | .24E-05 | 90.000 |
| 2. | 4145.050 | .803 | .23E-05 | 0.00 | .65E-08 | -180.000 | .24E-05 | 90.000 |
| 3. | 4146.316 | 1.202 | .23E-05 | 0.00 | .95E-08 | -180.000 | .24E-05 | 90.000 |
| 4. | 4148.086 | 1.598 | .23E-05 | 0.00 | .12E-07 | -180.000 | .24E-05 | 90.000 |
| 5. | 4150.355 | 1.990 | .23E-05 | 0.00 | .14E-07 | -180.000 | .24E-05 | 90.000 |
| 6. | 4153.118 | 2.377 | .22E-05 | 0.00 | .16E-07 | -180.000 | .24E-05 | 90.000 |
| 7. | 4156.370 | 2.757 | .22E-05 | 0.00 | .17E-07 | 180.000 | .24E-05 | 90.000 |
| 8. | 4160.103 | 3.131 | .22E-05 | 0.00 | .18E-07 | -180.000 | .24E-05 | 90.000 |
| 9. | 4164.311 | 3.497 | .22E-05 | 0.00 | .17E-07 | -180.000 | .24E-05 | 90.000 |
| 10. | 4168.984 | 3.855 | .22E-05 | 0.00 | .15E-07 | -180.000 | .24E-05 | 90.000 |
| 11. | 4174.114 | 4.204 | .22E-05 | 0.00 | .13E-07 | -180.000 | .24E-05 | 90.000 |
| 12. | 4179.691 | 4.543 | .22E-05 | 0.00 | .94E-08 | -180.000 | .24E-05 | 90.000 |
| 13. | 4185.704 | 4.873 | .21E-05 | 0.00 | .46E-08 | 180.000 | .24E-05 | 90.000 |
| 14. | 4192.144 | 5.192 | .21E-05 | 0.00 | .15E-08 | 0.000 | .24E-05 | 90.000 |
| 15. | 4198.998 | 5.501 | .21E-05 | 0.00 | .88E-08 | 0.000 | .24E-05 | 90.000 |
| 16. | 4206.255 | 5.799 | .21E-05 | 0.00 | .18E-07 | 0.000 | .24E-05 | 90.000 |
| 17. | 4213.905 | 6.087 | .21E-05 | 0.00 | .27E-07 | 0.000 | .24E-05 | 90.000 |
| 18. | 4221.937 | 6.364 | .20E-05 | 0.00 | .39E-07 | 0.000 | .24E-05 | 90.000 |
| 19. | 4230.339 | 6.632 | .20E-05 | 0.00 | .52E-07 | 0.000 | .24E-05 | 90.000 |
| 20. | 4239.103 | 6.891 | .20E-05 | 0.00 | .66E-07 | 0.000 | .24E-05 | 90.000 |
| 21. | 4248.218 | 7.140 | .20E-05 | 0.00 | .81E-07 | 0.000 | .24E-05 | 90.000 |
| 22. | 4257.676 | 7.382 | .19E-05 | 0.00 | .98E-07 | 0.000 | .24E-05 | 90.000 |
| 23. | 4267.471 | 7.617 | .19E-05 | 0.00 | .12E-06 | 0.000 | .24E-05 | 90.000 |
| 24. | 4277.595 | 7.845 | .19E-05 | 0.00 | .13E-06 | 0.000 | .24E-05 | 90.000 |
| 25. | 4288.044 | 8.069 | .19E-05 | 0.00 | .15E-06 | 0.000 | .24E-05 | 90.000 |
| 26. | 4298.813 | 8.288 | .18E-05 | 0.00 | .17E-06 | 0.000 | .24E-05 | 90.000 |
| 27. | 4309.901 | 8.503 | .18E-05 | 0.00 | .19E-06 | 0.000 | .24E-05 | 90.000 |
| 28. | 4321.305 | 8.716 | .18E-05 | 0.00 | .22E-06 | 0.000 | .24E-05 | 90.000 |
| 29. | 4333.025 | 8.926 | .18E-05 | 0.00 | .24E-06 | 0.000 | .24E-05 | 90.000 |
| 30. | 4345.061 | 9.135 | .17E-05 | 0.00 | .26E-06 | 0.000 | .24E-05 | 90.000 |
| 31. | 4357.413 | 9.342 | .17E-05 | 0.00 | .28E-06 | 0.000 | .24E-05 | 90.000 |
| 32. | 4370.082 | 9.547 | .17E-05 | 0.00 | .30E-06 | 0.000 | .24E-05 | 90.000 |
| 33. | 4383.069 | 9.750 | .16E-05 | 0.00 | .32E-06 | 0.000 | .24E-05 | 90.000 |
| 34. | 4396.372 | 9.951 | .16E-05 | 0.00 | .34E-06 | 0.000 | .24E-05 | 90.000 |
| 35. | 4409.991 | 10.147 | .16E-05 | 0.00 | .35E-06 | 0.000 | .24E-05 | 90.000 |
| 36. | 4423.922 | 10.339 | .16E-05 | 0.00 | .37E-06 | 0.000 | .24E-05 | 90.000 |
| 37. | 4438.161 | 10.524 | .16E-05 | 0.00 | .38E-06 | 0.000 | .24E-05 | 90.000 |
| 38. | 4452.701 | 10.701 | .15E-05 | 0.00 | .39E-06 | 0.000 | .24E-05 | 90.000 |
| 39. | 4467.530 | 10.868 | .15E-05 | 0.00 | .40E-06 | 0.000 | .24E-05 | 90.000 |
| 40. | 4482.637 | 11.023 | .15E-05 | 0.00 | .41E-06 | 0.000 | .24E-05 | 90.000 |
| 41. | 4498.006 | 11.164 | .15E-05 | 0.00 | .42E-06 | 0.000 | .24E-05 | 90.000 |
| 42. | 4513.616 | 11.288 | .15E-05 | 0.00 | .42E-06 | 0.000 | .24E-05 | 90.000 |
| 43. | 4529.445 | 11.393 | .15E-05 | 0.00 | .42E-06 | 0.000 | .24E-05 | 90.000 |
| 44. | 4545.467 | 11.478 | .15E-05 | 0.00 | .42E-06 | 0.000 | .24E-05 | 90.000 |
| 45. | 4561.651 | 11.539 | .15E-05 | 0.00 | .42E-06 | 0.000 | .24E-05 | 90.000 |
| 46. | 4577.963 | 11.574 | .15E-05 | 0.00 | .41E-06 | 0.000 | .24E-05 | 90.000 |
| 47. | 4594.365 | 11.582 | .15E-05 | 0.00 | .41E-06 | 0.000 | .24E-05 | 90.000 |
| 48. | 4610.817 | 11.561 | .15E-05 | 0.00 | .40E-06 | 0.000 | .24E-05 | 90.000 |
| 49. | 4627.273 | 11.508 | .15E-05 | 0.00 | .38E-06 | 0.000 | .24E-05 | 90.000 |

X-CUT RUTILE

| | WWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4643.685 | 11.422 | .15E-05 | 0.00 | .37E-06 | 0.000 | .24E-05 | 90.000 |
| 51. | 4660.004 | 11.302 | .15E-05 | 0.00 | .35E-06 | 0.000 | .24E-05 | 90.000 |
| 52. | 4676.176 | 11.146 | .15E-05 | 0.00 | .33E-06 | 0.000 | .24E-05 | 90.000 |
| 53. | 4692.144 | 10.953 | .15E-05 | 0.00 | .31E-06 | 0.000 | .24E-05 | 90.000 |
| 54. | 4707.853 | 10.722 | .15E-05 | 0.00 | .29E-06 | 0.000 | .24E-05 | 90.000 |
| 55. | 4723.242 | 10.454 | .15E-05 | 0.00 | .27E-06 | 0.000 | .24E-05 | 90.000 |
| 56. | 4738.253 | 10.148 | .15E-05 | 0.00 | .24E-06 | 0.000 | .24E-05 | 90.000 |
| 57. | 4752.828 | 9.806 | .15E-05 | 0.00 | .22E-06 | 0.000 | .24E-05 | 90.000 |
| 58. | 4766.909 | 9.428 | .15E-05 | 0.00 | .19E-06 | 0.000 | .25E-05 | 90.000 |
| 59. | 4780.442 | 9.018 | .15E-05 | 0.00 | .15E-06 | 0.000 | .25E-05 | 90.000 |
| 60. | 4793.375 | 8.577 | .15E-05 | 0.00 | .13E-06 | 0.000 | .25E-05 | 90.000 |
| 61. | 4805.662 | 8.109 | .15E-05 | 0.00 | .10E-06 | 0.000 | .25E-05 | 90.000 |
| 62. | 4817.204 | 7.620 | .16E-05 | 0.00 | .77E-07 | 0.000 | .25E-05 | 90.000 |
| 63. | 4828.147 | 7.113 | .16E-05 | 0.00 | .50E-07 | 0.000 | .25E-05 | 90.000 |
| 64. | 4838.288 | 6.595 | .16E-05 | 0.00 | .24E-07 | 0.000 | .25E-05 | 90.000 |
| 65. | 4847.670 | 6.072 | .16E-05 | 0.00 | .37E-09 | -180.000 | .26E-05 | 90.000 |
| 66. | 4856.287 | 5.549 | .16E-05 | 0.00 | .23E-07 | -180.000 | .26E-05 | 90.000 |
| 67. | 4864.142 | 5.033 | .16E-05 | 0.00 | .44E-07 | 180.000 | .26E-05 | 90.000 |
| 68. | 4871.247 | 4.530 | .16E-05 | 0.00 | .62E-07 | -180.000 | .26E-05 | 90.000 |
| 69. | 4877.622 | 4.045 | .16E-05 | 0.00 | .79E-07 | -180.000 | .26E-05 | 90.000 |
| 70. | 4883.296 | 3.581 | .16E-05 | 0.00 | .92E-07 | -180.000 | .26E-05 | 90.000 |
| 71. | 4888.303 | 3.144 | .16E-05 | 0.00 | .10E-06 | -180.000 | .26E-05 | 90.000 |
| 72. | 4892.683 | 2.735 | .16E-05 | 0.00 | .11E-06 | -180.000 | .26E-05 | 90.000 |
| 73. | 4896.478 | 2.358 | .16E-05 | 0.00 | .12E-06 | 180.000 | .27E-05 | 90.000 |
| 74. | 4899.736 | 2.012 | .16E-05 | 0.00 | .12E-06 | -180.000 | .27E-05 | 90.000 |
| 75. | 4902.503 | 1.699 | .16E-05 | 0.00 | .13E-06 | -180.000 | .27E-05 | 90.000 |
| 76. | 4904.828 | 1.419 | .16E-05 | 0.00 | .13E-06 | 180.000 | .27E-05 | 90.000 |
| 77. | 4906.759 | 1.170 | .16E-05 | 0.00 | .12E-06 | 180.000 | .27E-05 | 90.000 |
| 78. | 4908.341 | .952 | .16E-05 | 0.00 | .12E-06 | 180.000 | .27E-05 | 90.000 |
| 79. | 4909.621 | .764 | .16E-05 | 0.00 | .12E-06 | -180.000 | .27E-05 | 90.000 |
| 80. | 4910.640 | .603 | .16E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 81. | 4911.437 | .467 | .16E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 82. | 4912.050 | .355 | .16E-05 | 0.00 | .93E-07 | 180.000 | .27E-05 | 90.000 |
| 83. | 4912.511 | .264 | .16E-05 | 0.00 | .83E-07 | 180.000 | .27E-05 | 90.000 |
| 84. | 4912.849 | .192 | .16E-05 | 0.00 | .73E-07 | 180.000 | .27E-05 | 90.000 |
| 85. | 4913.092 | .135 | .16E-05 | 0.00 | .62E-07 | 180.000 | .27E-05 | 90.000 |
| 86. | 4913.260 | .092 | .16E-05 | 0.00 | .50E-07 | 180.000 | .27E-05 | 90.000 |
| 87. | 4913.372 | .059 | .16E-05 | 0.00 | .38E-07 | 180.000 | .27E-05 | 90.000 |
| 88. | 4913.442 | .035 | .16E-05 | 0.00 | .25E-07 | 180.000 | .27E-05 | 90.000 |
| 89. | 4913.479 | .016 | .16E-05 | 0.00 | .13E-07 | 180.000 | .27E-05 | 90.000 |
| 90. | 4913.491 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .27E-05 | 90.000 |
| 91. | 4913.479 | -.016 | .16E-05 | 0.00 | .13E-07 | 0.000 | .27E-05 | 90.000 |
| 92. | 4913.442 | -.035 | .16E-05 | 0.00 | .25E-07 | 0.000 | .27E-05 | 90.000 |
| 93. | 4913.372 | -.059 | .16E-05 | 0.00 | .38E-07 | 0.000 | .27E-05 | 90.000 |
| 94. | 4913.260 | -.092 | .16E-05 | 0.00 | .50E-07 | 0.000 | .27E-05 | 90.000 |
| 95. | 4913.092 | -.135 | .16E-05 | 0.00 | .62E-07 | 0.000 | .27E-05 | 90.000 |
| 96. | 4912.849 | -.192 | .16E-05 | 0.00 | .73E-07 | 0.000 | .27E-05 | 90.000 |
| 97. | 4912.511 | -.264 | .16E-05 | 0.00 | .83E-07 | 0.000 | .27E-05 | 90.000 |
| 98. | 4912.050 | -.355 | .16E-05 | 0.00 | .93E-07 | 0.000 | .27E-05 | 90.000 |
| 99. | 4911.437 | -.467 | .16E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |

X-CUT RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4910.640 | -.603 | .16E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 101. | 4909.621 | -.764 | .16E-05 | 0.00 | .12E-06 | 0.000 | .27E-05 | 90.000 |
| 102. | 4908.341 | -.952 | .16E-05 | 0.00 | .12E-06 | 0.000 | .27E-05 | 90.000 |
| 103. | 4906.759 | -1.170 | .16E-05 | 0.00 | .12E-06 | 0.000 | .27E-05 | 90.000 |
| 104. | 4904.828 | -1.419 | .16E-05 | 0.00 | .13E-06 | 0.000 | .27E-05 | 90.000 |
| 105. | 4902.503 | -1.699 | .16E-05 | 0.00 | .13E-06 | 0.000 | .27E-05 | 90.000 |
| 106. | 4899.736 | -2.012 | .16E-05 | 0.00 | .12E-06 | 0.000 | .27E-05 | 90.000 |
| 107. | 4896.478 | -2.358 | .16E-05 | 0.00 | .12E-06 | 0.000 | .27E-05 | 90.000 |
| 108. | 4892.683 | -2.735 | .16E-05 | 0.00 | .11E-06 | 0.000 | .26E-05 | 90.000 |
| 109. | 4888.303 | -3.144 | .16E-05 | 0.00 | .10E-06 | 0.000 | .26E-05 | 90.000 |
| 110. | 4883.296 | -3.581 | .16E-05 | 0.00 | .92E-07 | 0.000 | .26E-05 | 90.000 |
| 111. | 4877.622 | -4.045 | .16E-05 | 0.00 | .79E-07 | 0.000 | .26E-05 | 90.000 |
| 112. | 4871.247 | -4.530 | .16E-05 | 0.00 | .62E-07 | 0.000 | .26E-05 | 90.000 |
| 113. | 4864.142 | -5.033 | .16E-05 | 0.00 | .44E-07 | 0.000 | .26E-05 | 90.000 |
| 114. | 4856.287 | -5.549 | .16E-05 | 0.00 | .23E-07 | 0.000 | .26E-05 | 90.000 |
| 115. | 4847.670 | -6.072 | .16E-05 | 0.00 | .37E-09 | 0.000 | .26E-05 | 90.000 |
| 116. | 4838.288 | -6.595 | .16E-05 | 0.00 | .24E-07 | 180.000 | .25E-05 | 90.000 |
| 117. | 4828.147 | -7.113 | .16E-05 | 0.00 | .50E-07 | 180.000 | .25E-05 | 90.000 |
| 118. | 4817.264 | -7.620 | .16E-05 | 0.00 | .77E-07 | 180.000 | .25E-05 | 90.000 |
| 119. | 4805.662 | -8.109 | .15E-05 | 0.00 | .10E-06 | 180.000 | .25E-05 | 90.000 |
| 120. | 4793.375 | -8.577 | .15E-05 | 0.00 | .13E-06 | 180.000 | .25E-05 | 90.000 |
| 121. | 4780.442 | -9.018 | .15E-05 | 0.00 | .16E-06 | 180.000 | .25E-05 | 90.000 |
| 122. | 4766.909 | -9.428 | .15E-05 | 0.00 | .19E-06 | 180.000 | .25E-05 | 90.000 |
| 123. | 4752.828 | -9.806 | .15E-05 | 0.00 | .22E-06 | 180.000 | .24E-05 | 90.000 |
| 124. | 4738.253 | -10.148 | .15E-05 | 0.00 | .24E-06 | 180.000 | .24E-05 | 90.000 |
| 125. | 4723.242 | -10.454 | .15E-05 | 0.00 | .27E-06 | -180.000 | .24E-05 | 90.000 |
| 126. | 4707.853 | -10.722 | .15E-05 | 0.00 | .29E-06 | 180.000 | .24E-05 | 90.000 |
| 127. | 4692.144 | -10.953 | .15E-05 | 0.00 | .31E-06 | 180.000 | .24E-05 | 90.000 |
| 128. | 4676.176 | -11.146 | .15E-05 | 0.00 | .33E-06 | -180.000 | .24E-05 | 90.000 |
| 129. | 4660.004 | -11.302 | .15E-05 | 0.00 | .35E-06 | 180.000 | .24E-05 | 90.000 |
| 130. | 4643.685 | -11.422 | .15E-05 | 0.00 | .37E-06 | 180.000 | .24E-05 | 90.000 |
| 131. | 4627.273 | -11.508 | .15E-05 | 0.00 | .38E-06 | -180.000 | .24E-05 | 90.000 |
| 132. | 4610.817 | -11.561 | .15E-05 | 0.00 | .40E-06 | -180.000 | .24E-05 | 90.000 |
| 133. | 4594.369 | -11.582 | .15E-05 | 0.00 | .41E-06 | -180.000 | .24E-05 | 90.000 |
| 134. | 4577.963 | -11.574 | .15E-05 | 0.00 | .41E-06 | -180.000 | .24E-05 | 90.000 |
| 135. | 4561.651 | -11.539 | .15E-05 | 0.00 | .42E-06 | 180.000 | .24E-05 | 90.000 |
| 136. | 4545.467 | -11.478 | .15E-05 | 0.00 | .42E-06 | 180.000 | .24E-05 | 90.000 |
| 137. | 4529.445 | -11.393 | .15E-05 | 0.00 | .42E-06 | -180.000 | .24E-05 | 90.000 |
| 138. | 4513.616 | -11.288 | .15E-05 | 0.00 | .42E-06 | 180.000 | .24E-05 | 90.000 |
| 139. | 4498.006 | -11.164 | .15E-05 | 0.00 | .42E-06 | 180.000 | .24E-05 | 90.000 |
| 140. | 4482.637 | -11.023 | .15E-05 | 0.00 | .41E-06 | 180.000 | .24E-05 | 90.000 |
| 141. | 4467.530 | -10.868 | .15E-05 | 0.00 | .40E-06 | -180.000 | .24E-05 | 90.000 |
| 142. | 4452.701 | -10.701 | .15E-05 | 0.00 | .39E-06 | 180.000 | .24E-05 | 90.000 |
| 143. | 4438.161 | -10.524 | .16E-05 | 0.00 | .38E-06 | 180.000 | .24E-05 | 90.000 |
| 144. | 4423.922 | -10.339 | .16E-05 | 0.00 | .37E-06 | 180.000 | .24E-05 | 90.000 |
| 145. | 4409.991 | -10.147 | .16E-05 | 0.00 | .35E-06 | 180.000 | .24E-05 | 90.000 |
| 146. | 4396.372 | -9.951 | .16E-05 | 0.00 | .34E-06 | -180.000 | .24E-05 | 90.000 |
| 147. | 4383.069 | -9.750 | .16E-05 | 0.00 | .32E-06 | 180.000 | .24E-05 | 90.000 |
| 148. | 4370.082 | -9.547 | .17E-05 | 0.00 | .30E-06 | -180.000 | .24E-05 | 90.000 |
| 149. | 4357.413 | -9.342 | .17E-05 | 0.00 | .28E-06 | 180.000 | .24E-05 | 90.000 |

X-CUT RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4345.061 | -9.135 | .17E-05 | 0.00 | .26E-06 | -180.000 | .24E-05 | 90.000 |
| 151. | 4333.025 | -8.926 | .18E-05 | 0.00 | .24E-06 | 180.000 | .24E-05 | 90.000 |
| 152. | 4321.305 | -8.710 | .18E-05 | 0.00 | .22E-06 | -180.000 | .24E-05 | 90.000 |
| 153. | 4309.901 | -8.503 | .18E-05 | 0.00 | .19E-06 | -180.000 | .24E-05 | 90.000 |
| 154. | 4298.813 | -8.288 | .18E-05 | 0.00 | .17E-06 | -180.000 | .24E-05 | 90.000 |
| 155. | 4288.044 | -8.069 | .19E-05 | 0.00 | .15E-06 | 180.000 | .24E-05 | 90.000 |
| 156. | 4277.595 | -7.845 | .19E-05 | 0.00 | .13E-06 | 180.000 | .24E-05 | 90.000 |
| 157. | 4267.471 | -7.617 | .19E-05 | 0.00 | .12E-06 | 180.000 | .24E-05 | 90.000 |
| 158. | 4257.676 | -7.382 | .19E-05 | 0.00 | .98E-07 | 180.000 | .24E-05 | 90.000 |
| 159. | 4248.218 | -7.140 | .20E-05 | 0.00 | .81E-07 | -180.000 | .24E-05 | 90.000 |
| 160. | 4239.103 | -6.891 | .20E-05 | 0.00 | .66E-07 | 180.000 | .24E-05 | 90.000 |
| 161. | 4230.339 | -6.632 | .20E-05 | 0.00 | .52E-07 | 180.000 | .24E-05 | 90.000 |
| 162. | 4221.937 | -6.364 | .20E-05 | 0.00 | .39E-07 | 180.000 | .24E-05 | 90.000 |
| 163. | 4213.905 | -6.087 | .21E-05 | 0.00 | .27E-07 | -180.000 | .24E-05 | 90.000 |
| 164. | 4206.255 | -5.799 | .21E-05 | 0.00 | .18E-07 | 180.000 | .24E-05 | 90.000 |
| 165. | 4198.998 | -5.501 | .21E-05 | 0.00 | .88E-08 | 180.000 | .24E-05 | 90.000 |
| 166. | 4192.144 | -5.192 | .21E-05 | 0.00 | .15E-08 | 180.000 | .24E-05 | 90.000 |
| 167. | 4185.704 | -4.873 | .21E-05 | 0.00 | .49E-08 | 0.000 | .24E-05 | 90.000 |
| 168. | 4179.691 | -4.543 | .22E-05 | 0.00 | .94E-08 | 0.000 | .24E-05 | 90.000 |
| 169. | 4174.114 | -4.204 | .22E-05 | 0.00 | .13E-07 | 0.000 | .24E-05 | 90.000 |
| 170. | 4168.984 | -3.855 | .22E-05 | 0.00 | .15E-07 | 0.000 | .24E-05 | 90.000 |
| 171. | 4164.311 | -3.497 | .22E-05 | 0.00 | .17E-07 | 0.000 | .24E-05 | 90.000 |
| 172. | 4160.103 | -3.131 | .22E-05 | 0.00 | .18E-07 | 0.000 | .24E-05 | 90.000 |
| 173. | 4156.370 | -2.757 | .22E-05 | 0.00 | .17E-07 | 0.000 | .24E-05 | 90.000 |
| 174. | 4153.118 | -2.377 | .22E-05 | 0.00 | .16E-07 | 0.000 | .24E-05 | 90.000 |
| 175. | 4150.355 | -1.990 | .23E-05 | 0.00 | .14E-07 | 0.000 | .24E-05 | 90.000 |
| 176. | 4148.086 | -1.598 | .23E-05 | 0.00 | .12E-07 | 0.000 | .24E-05 | 90.000 |
| 177. | 4146.316 | -1.202 | .23E-05 | 0.00 | .95E-08 | 0.000 | .24E-05 | 90.000 |
| 178. | 4145.050 | -.803 | .23E-05 | 0.00 | .65E-08 | 0.000 | .24E-05 | 90.000 |
| 179. | 4144.289 | -.402 | .23E-05 | 0.00 | .33E-08 | 0.000 | .24E-05 | 90.000 |
| 180. | 4144.035 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |

X-AXIS BOULE RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4788.942 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .23E-05 | 90.000 |
| 1. | 4788.923 | 0.000 | .20E-05 | 0.00 | .15E-07 | 90.000 | .23E-05 | 90.000 |
| 2. | 4788.869 | 0.000 | .20E-05 | 0.00 | .31E-07 | 90.000 | .23E-05 | 90.000 |
| 3. | 4788.776 | 0.000 | .20E-05 | 0.00 | .46E-07 | 90.000 | .23E-05 | 90.000 |
| 4. | 4788.646 | 0.000 | .20E-05 | 0.00 | .62E-07 | 90.000 | .23E-05 | 90.000 |
| 5. | 4788.475 | 0.000 | .20E-05 | 0.00 | .77E-07 | 90.000 | .23E-05 | 90.000 |
| 6. | 4788.263 | 0.000 | .20E-05 | 0.00 | .92E-07 | 90.000 | .23E-05 | 90.000 |
| 7. | 4788.006 | 0.000 | .20E-05 | 0.00 | .11E-06 | 90.000 | .23E-05 | 90.000 |
| 8. | 4787.702 | 0.000 | .20E-05 | 0.00 | .12E-06 | 90.000 | .23E-05 | 90.000 |
| 9. | 4787.348 | 0.000 | .20E-05 | 0.00 | .14E-06 | 90.000 | .23E-05 | 90.000 |
| 10. | 4786.939 | 0.000 | .20E-05 | 0.00 | .15E-06 | 90.000 | .23E-05 | 90.000 |
| 11. | 4786.471 | 0.000 | .20E-05 | 0.00 | .17E-06 | 90.000 | .23E-05 | 90.000 |
| 12. | 4785.940 | 0.000 | .20E-05 | 0.00 | .18E-06 | 90.000 | .23E-05 | 90.000 |
| 13. | 4785.340 | 0.000 | .20E-05 | 0.00 | .20E-06 | 90.000 | .23E-05 | 90.000 |
| 14. | 4784.665 | 0.000 | .20E-05 | 0.00 | .21E-06 | 90.000 | .23E-05 | 90.000 |
| 15. | 4783.909 | 0.000 | .20E-05 | 0.00 | .23E-06 | 90.000 | .23E-05 | 90.000 |
| 16. | 4783.065 | 0.000 | .21E-05 | 0.00 | .24E-06 | 90.000 | .23E-05 | 90.000 |
| 17. | 4782.126 | 0.000 | .21E-05 | 0.00 | .26E-06 | 90.000 | .23E-05 | 90.000 |
| 18. | 4781.084 | 0.000 | .21E-05 | 0.00 | .27E-06 | 90.000 | .23E-05 | 90.000 |
| 19. | 4779.929 | 0.000 | .21E-05 | 0.00 | .28E-06 | 90.000 | .23E-05 | 90.000 |
| 20. | 4778.653 | 0.000 | .21E-05 | 0.00 | .30E-06 | 90.000 | .23E-05 | 90.000 |
| 21. | 4777.246 | 0.000 | .21E-05 | 0.00 | .31E-06 | 90.000 | .23E-05 | 90.000 |
| 22. | 4775.696 | 0.000 | .21E-05 | 0.00 | .32E-06 | 90.000 | .23E-05 | 90.000 |
| 23. | 4773.994 | 0.000 | .21E-05 | 0.00 | .33E-06 | 90.000 | .23E-05 | 90.000 |
| 24. | 4772.126 | 0.000 | .21E-05 | 0.00 | .35E-06 | 90.000 | .23E-05 | 90.000 |
| 25. | 4770.080 | 0.000 | .21E-05 | 0.00 | .36E-06 | 90.000 | .23E-05 | 90.000 |
| 26. | 4767.843 | 0.000 | .21E-05 | 0.00 | .37E-06 | 90.000 | .23E-05 | 90.000 |
| 27. | 4765.400 | 0.000 | .21E-05 | 0.00 | .38E-06 | 90.000 | .23E-05 | 90.000 |
| 28. | 4762.736 | 0.000 | .21E-05 | 0.00 | .39E-06 | 90.000 | .23E-05 | 90.000 |
| 29. | 4759.836 | 0.000 | .21E-05 | 0.00 | .40E-06 | 90.000 | .23E-05 | 90.000 |
| 30. | 4756.684 | 0.000 | .21E-05 | 0.00 | .41E-06 | 90.000 | .23E-05 | 90.000 |
| 31. | 4753.261 | 0.000 | .21E-05 | 0.00 | .42E-06 | 90.000 | .23E-05 | 90.000 |
| 32. | 4749.550 | 0.000 | .21E-05 | 0.00 | .43E-06 | 90.000 | .23E-05 | 90.000 |
| 33. | 4745.533 | 0.000 | .22E-05 | 0.00 | .43E-06 | 90.000 | .23E-05 | 90.000 |
| 34. | 4741.190 | 0.000 | .22E-05 | 0.00 | .44E-06 | 90.000 | .23E-05 | 90.000 |
| 35. | 4736.502 | 0.000 | .22E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 36. | 4731.448 | 0.000 | .22E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 37. | 4726.009 | 0.000 | .22E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 38. | 4720.165 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .23E-05 | 90.000 |
| 39. | 4713.894 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .23E-05 | 90.000 |
| 40. | 4707.179 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .23E-05 | 90.000 |
| 41. | 4699.999 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .23E-05 | 90.000 |
| 42. | 4692.337 | 0.000 | .23E-05 | 0.00 | .46E-06 | 90.000 | .23E-05 | 90.000 |
| 43. | 4684.176 | 0.000 | .23E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 44. | 4675.503 | 0.000 | .23E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 45. | 4666.304 | 0.000 | .23E-05 | 0.00 | .45E-06 | 90.000 | .23E-05 | 90.000 |
| 46. | 4656.571 | 0.000 | .23E-05 | 0.00 | .44E-06 | 90.000 | .23E-05 | 90.000 |
| 47. | 4646.296 | 0.000 | .23E-05 | 0.00 | .43E-06 | 90.000 | .23E-05 | 90.000 |
| 48. | 4635.478 | 0.000 | .23E-05 | 0.00 | .43E-06 | 90.000 | .23E-05 | 90.000 |
| 49. | 4624.117 | 0.000 | .23E-05 | 0.00 | .42E-06 | 90.000 | .23E-05 | 90.000 |

X-AXIS BOULE RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 9999.999 | 0.000 | .23E-05 | 0.00 | .41E-06 | 90.000 | .23E-05 | 90.000 |
| 51. | 4599.793 | 0.000 | .23E-05 | 0.00 | .39E-06 | 90.000 | .23E-05 | 90.000 |
| 52. | 4586.856 | 0.000 | .23E-05 | 0.00 | .38E-06 | 90.000 | .23E-05 | 90.000 |
| 53. | 4573.427 | 0.000 | .23E-05 | 0.00 | .37E-06 | 90.000 | .23E-05 | 90.000 |
| 54. | 4559.531 | 0.000 | .24E-05 | 0.00 | .35E-06 | 90.000 | .23E-05 | 90.000 |
| 55. | 4545.199 | 0.000 | .24E-05 | 0.00 | .34E-06 | 90.000 | .23E-05 | 90.000 |
| 56. | 4530.465 | 0.000 | .24E-05 | 0.00 | .32E-06 | 90.000 | .23E-05 | 90.000 |
| 57. | 4515.370 | 0.000 | .24E-05 | 0.00 | .31E-06 | 90.000 | .23E-05 | 90.000 |
| 58. | 4499.956 | 0.000 | .24E-05 | 0.00 | .29E-06 | 90.000 | .23E-05 | 90.000 |
| 59. | 4484.271 | 0.000 | .24E-05 | 0.00 | .28E-06 | 90.000 | .23E-05 | 90.000 |
| 60. | 4468.365 | 0.000 | .24E-05 | 0.00 | .26E-06 | 90.000 | .23E-05 | 90.000 |
| 61. | 4452.293 | 0.000 | .24E-05 | 0.00 | .25E-06 | 90.000 | .23E-05 | 90.000 |
| 62. | 4436.108 | 0.000 | .24E-05 | 0.00 | .23E-06 | 90.000 | .23E-05 | 90.000 |
| 63. | 4419.867 | 0.000 | .24E-05 | 0.00 | .21E-06 | 90.000 | .23E-05 | 90.000 |
| 64. | 4403.630 | 0.000 | .24E-05 | 0.00 | .20E-06 | 90.000 | .23E-05 | 90.000 |
| 65. | 4387.454 | 0.000 | .24E-05 | 0.00 | .18E-06 | 90.000 | .23E-05 | 90.000 |
| 66. | 4371.396 | 0.000 | .23E-05 | 0.00 | .17E-06 | 90.000 | .23E-05 | 90.000 |
| 67. | 4355.516 | 0.000 | .23E-05 | 0.00 | .16E-06 | 90.000 | .23E-05 | 90.000 |
| 68. | 4339.870 | 0.000 | .23E-05 | 0.00 | .14E-06 | 90.000 | .23E-05 | 90.000 |
| 69. | 4324.513 | 0.000 | .23E-05 | 0.00 | .13E-06 | 90.000 | .23E-05 | 90.000 |
| 70. | 4309.500 | 0.000 | .23E-05 | 0.00 | .12E-06 | 90.000 | .23E-05 | 90.000 |
| 71. | 4294.883 | 0.000 | .23E-05 | 0.00 | .11E-06 | 90.000 | .23E-05 | 90.000 |
| 72. | 4280.711 | 0.000 | .23E-05 | 0.00 | .96E-07 | 90.000 | .23E-05 | 90.000 |
| 73. | 4267.033 | 0.000 | .23E-05 | 0.00 | .86E-07 | 90.000 | .23E-05 | 90.000 |
| 74. | 4253.895 | 0.000 | .23E-05 | 0.00 | .77E-07 | 90.000 | .23E-05 | 90.000 |
| 75. | 4241.338 | 0.000 | .23E-05 | 0.00 | .68E-07 | 90.000 | .23E-05 | 90.000 |
| 76. | 4229.405 | 0.000 | .23E-05 | 0.00 | .60E-07 | 90.000 | .24E-05 | 90.000 |
| 77. | 4218.131 | 0.000 | .23E-05 | 0.00 | .53E-07 | 90.000 | .24E-05 | 90.000 |
| 78. | 4207.554 | 0.000 | .23E-05 | 0.00 | .46E-07 | 90.000 | .24E-05 | 90.000 |
| 79. | 4197.704 | 0.000 | .23E-05 | 0.00 | .40E-07 | 90.000 | .24E-05 | 90.000 |
| 80. | 4188.612 | 0.000 | .23E-05 | 0.00 | .35E-07 | 90.000 | .24E-05 | 90.000 |
| 81. | 4180.305 | 0.000 | .23E-05 | 0.00 | .30E-07 | 90.000 | .24E-05 | 90.000 |
| 82. | 4172.808 | 0.000 | .23E-05 | 0.00 | .25E-07 | 90.000 | .24E-05 | 90.000 |
| 83. | 4166.142 | 0.000 | .23E-05 | 0.00 | .21E-07 | 90.000 | .24E-05 | 90.000 |
| 84. | 4160.326 | 0.000 | .23E-05 | 0.00 | .17E-07 | 90.000 | .24E-05 | 90.000 |
| 85. | 4155.377 | 0.000 | .23E-05 | 0.00 | .14E-07 | 90.000 | .24E-05 | 90.000 |
| 86. | 4151.309 | 0.000 | .23E-05 | 0.00 | .11E-07 | 90.000 | .24E-05 | 90.000 |
| 87. | 4148.133 | 0.000 | .23E-05 | 0.00 | .79E-08 | 90.000 | .24E-05 | 90.000 |
| 88. | 4145.858 | 0.000 | .23E-05 | 0.00 | .52E-08 | 90.000 | .24E-05 | 90.000 |
| 89. | 4144.491 | 0.000 | .23E-05 | 0.00 | .26E-08 | 90.000 | .24E-05 | 90.000 |
| 90. | 4144.035 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 91. | 4144.491 | 0.000 | .23E-05 | 0.00 | .26E-08 | -90.000 | .24E-05 | 90.000 |
| 92. | 4145.858 | 0.000 | .23E-05 | 0.00 | .52E-08 | -90.000 | .24E-05 | 90.000 |
| 93. | 4148.133 | 0.000 | .23E-05 | 0.00 | .79E-08 | -90.000 | .24E-05 | 90.000 |
| 94. | 4151.309 | 0.000 | .23E-05 | 0.00 | .11E-07 | -90.000 | .24E-05 | 90.000 |
| 95. | 4155.377 | 0.000 | .23E-05 | 0.00 | .14E-07 | -90.000 | .24E-05 | 90.000 |
| 96. | 4160.326 | 0.000 | .23E-05 | 0.00 | .17E-07 | -90.000 | .24E-05 | 90.000 |
| 97. | 4166.142 | 0.000 | .23E-05 | 0.00 | .21E-07 | -90.000 | .24E-05 | 90.000 |
| 98. | 4172.808 | 0.000 | .23E-05 | 0.00 | .25E-07 | -90.000 | .24E-05 | 90.000 |
| 99. | 4180.305 | 0.000 | .23E-05 | 0.00 | .30E-07 | -90.000 | .24E-05 | 90.000 |

X-AXIS BOULE RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4188.612 | 0.000 | .23E-05 | 0.00 | .35E-07 | -90.000 | .24E-05 | 90.000 |
| 101. | 4197.704 | 0.000 | .23E-05 | 0.00 | .40E-07 | -90.000 | .24E-05 | 90.000 |
| 102. | 4207.554 | 0.000 | .23E-05 | 0.00 | .46E-07 | -90.000 | .24E-05 | 90.000 |
| 103. | 4218.131 | 0.000 | .23E-05 | 0.00 | .53E-07 | -90.000 | .24E-05 | 90.000 |
| 104. | 4229.405 | 0.000 | .23E-05 | 0.00 | .60E-07 | -90.000 | .24E-05 | 90.000 |
| 105. | 4241.338 | 0.000 | .23E-05 | 0.00 | .68E-07 | -90.000 | .23E-05 | 90.000 |
| 106. | 4253.895 | 0.000 | .23E-05 | 0.00 | .77E-07 | -90.000 | .23E-05 | 90.000 |
| 107. | 4267.033 | 0.000 | .23E-05 | 0.00 | .86E-07 | -90.000 | .23E-05 | 90.000 |
| 108. | 4280.711 | 0.000 | .23E-05 | 0.00 | .96E-07 | -90.000 | .23E-05 | 90.000 |
| 109. | 4294.883 | 0.000 | .23E-05 | 0.00 | .11E-06 | -90.000 | .23E-05 | 90.000 |
| 110. | 4309.500 | 0.000 | .23E-05 | 0.00 | .12E-06 | -90.000 | .23E-05 | 90.000 |
| 111. | 4324.513 | 0.000 | .23E-05 | 0.00 | .13E-06 | -90.000 | .23E-05 | 90.000 |
| 112. | 4339.870 | 0.000 | .23E-05 | 0.00 | .14E-06 | -90.000 | .23E-05 | 90.000 |
| 113. | 4355.516 | 0.000 | .23E-05 | 0.00 | .16E-06 | -90.000 | .23E-05 | 90.000 |
| 114. | 4371.396 | 0.000 | .23E-05 | 0.00 | .17E-06 | -90.000 | .23E-05 | 90.000 |
| 115. | 4387.454 | 0.000 | .24E-05 | 0.00 | .18E-06 | -90.000 | .23E-05 | 90.000 |
| 116. | 4403.630 | 0.000 | .24E-05 | 0.00 | .20E-06 | -90.000 | .23E-05 | 90.000 |
| 117. | 4419.867 | 0.000 | .24E-05 | 0.00 | .21E-06 | -90.000 | .23E-05 | 90.000 |
| 118. | 4436.108 | 0.000 | .24E-05 | 0.00 | .23E-06 | -90.000 | .23E-05 | 90.000 |
| 119. | 4452.293 | 0.000 | .24E-05 | 0.00 | .25E-06 | -90.000 | .23E-05 | 90.000 |
| 120. | 4468.365 | 0.000 | .24E-05 | 0.00 | .26E-06 | -90.000 | .23E-05 | 90.000 |
| 121. | 4484.271 | 0.000 | .24E-05 | 0.00 | .28E-06 | -90.000 | .23E-05 | 90.000 |
| 122. | 4499.956 | 0.000 | .24E-05 | 0.00 | .29E-06 | -90.000 | .23E-05 | 90.000 |
| 123. | 4515.370 | 0.000 | .24E-05 | 0.00 | .31E-06 | -90.000 | .23E-05 | 90.000 |
| 124. | 4530.465 | 0.000 | .24E-05 | 0.00 | .32E-06 | -90.000 | .23E-05 | 90.000 |
| 125. | 4545.199 | 0.000 | .24E-05 | 0.00 | .34E-06 | -90.000 | .23E-05 | 90.000 |
| 126. | 4559.531 | 0.000 | .24E-05 | 0.00 | .35E-06 | -90.000 | .23E-05 | 90.000 |
| 127. | 4573.427 | 0.000 | .23E-05 | 0.00 | .37E-06 | -90.000 | .23E-05 | 90.000 |
| 128. | 4586.856 | 0.000 | .23E-05 | 0.00 | .38E-06 | -90.000 | .23E-05 | 90.000 |
| 129. | 4599.793 | 0.000 | .23E-05 | 0.00 | .39E-06 | -90.000 | .23E-05 | 90.000 |
| 130. | 4612.218 | 0.000 | .23E-05 | 0.00 | .41E-06 | -90.000 | .23E-05 | 90.000 |
| 131. | 4624.117 | 0.000 | .23E-05 | 0.00 | .42E-06 | -90.000 | .23E-05 | 90.000 |
| 132. | 4635.478 | 0.000 | .23E-05 | 0.00 | .43E-06 | -90.000 | .23E-05 | 90.000 |
| 133. | 4646.296 | 0.000 | .23E-05 | 0.00 | .43E-06 | -90.000 | .23E-05 | 90.000 |
| 134. | 4656.571 | 0.000 | .23E-05 | 0.00 | .44E-06 | -90.000 | .23E-05 | 90.000 |
| 135. | 4666.304 | 0.000 | .23E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 136. | 4675.503 | 0.000 | .23E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 137. | 4684.176 | 0.000 | .23E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 138. | 4692.337 | 0.000 | .23E-05 | 0.00 | .46E-06 | -90.000 | .23E-05 | 90.000 |
| 139. | 4699.999 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .23E-05 | 90.000 |
| 140. | 4707.179 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .23E-05 | 90.000 |
| 141. | 4713.894 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .23E-05 | 90.000 |
| 142. | 4720.165 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .23E-05 | 90.000 |
| 143. | 4726.009 | 0.000 | .22E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 144. | 4731.448 | 0.000 | .22E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 145. | 4736.502 | 0.000 | .22E-05 | 0.00 | .45E-06 | -90.000 | .23E-05 | 90.000 |
| 146. | 4741.190 | 0.000 | .22E-05 | 0.00 | .44E-06 | -90.000 | .23E-05 | 90.000 |
| 147. | 4745.533 | 0.000 | .22E-05 | 0.00 | .43E-06 | -90.000 | .23E-05 | 90.000 |
| 148. | 4749.550 | 0.000 | .21E-05 | 0.00 | .42E-06 | -90.000 | .23E-05 | 90.000 |
| 149. | 4753.261 | 0.000 | .21E-05 | 0.00 | .42E-06 | -90.000 | .23E-05 | 90.000 |

X-AXIS ROULE RUTILE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4756.684 | 0.000 | .21E-05 | 0.00 | .41E-06 | -90.000 | .23E-05 | 90.000 |
| 151. | 4759.836 | 0.000 | .21E-05 | 0.00 | .40E-06 | -90.000 | .23E-05 | 90.000 |
| 152. | 4762.736 | 0.000 | .21E-05 | 0.00 | .39E-06 | -90.000 | .23E-05 | 90.000 |
| 153. | 4765.400 | 0.000 | .21E-05 | 0.00 | .38E-06 | -90.000 | .23E-05 | 90.000 |
| 154. | 4767.843 | 0.000 | .21E-05 | 0.00 | .37E-06 | -90.000 | .23E-05 | 90.000 |
| 155. | 4770.080 | 0.000 | .21E-05 | 0.00 | .36E-06 | -90.000 | .23E-05 | 90.000 |
| 156. | 4772.126 | 0.000 | .21E-05 | 0.00 | .35E-06 | -90.000 | .23E-05 | 90.000 |
| 157. | 4773.994 | 0.000 | .21E-05 | 0.00 | .33E-06 | -90.000 | .23E-05 | 90.000 |
| 158. | 4775.696 | 0.000 | .21E-05 | 0.00 | .32E-06 | -90.000 | .23E-05 | 90.000 |
| 159. | 4777.246 | 0.000 | .21E-05 | 0.00 | .31E-06 | -90.000 | .23E-05 | 90.000 |
| 160. | 4778.653 | 0.000 | .21E-05 | 0.00 | .30E-06 | -90.000 | .23E-05 | 90.000 |
| 161. | 4779.929 | 0.000 | .21E-05 | 0.00 | .28E-06 | -90.000 | .23E-05 | 90.000 |
| 162. | 4781.084 | 0.000 | .21E-05 | 0.00 | .27E-06 | -90.000 | .23E-05 | 90.000 |
| 163. | 4782.126 | 0.000 | .21E-05 | 0.00 | .26E-06 | -90.000 | .23E-05 | 90.000 |
| 164. | 4783.065 | 0.000 | .21E-05 | 0.00 | .24E-06 | -90.000 | .23E-05 | 90.000 |
| 165. | 4783.909 | 0.000 | .20E-05 | 0.00 | .23E-06 | -90.000 | .23E-05 | 90.000 |
| 166. | 4784.665 | 0.000 | .20E-05 | 0.00 | .21E-06 | -90.000 | .23E-05 | 90.000 |
| 167. | 4785.340 | 0.000 | .20E-05 | 0.00 | .20E-06 | -90.000 | .23E-05 | 90.000 |
| 168. | 4785.940 | 0.000 | .20E-05 | 0.00 | .18E-06 | -90.000 | .23E-05 | 90.000 |
| 169. | 4786.471 | 0.000 | .20E-05 | 0.00 | .17E-06 | -90.000 | .23E-05 | 90.000 |
| 170. | 4786.939 | 0.000 | .20E-05 | 0.00 | .15E-06 | -90.000 | .23E-05 | 90.000 |
| 171. | 4787.348 | 0.000 | .20E-05 | 0.00 | .14E-06 | -90.000 | .23E-05 | 90.000 |
| 172. | 4787.702 | 0.000 | .20E-05 | 0.00 | .12E-06 | -90.000 | .23E-05 | 90.000 |
| 173. | 4788.006 | 0.000 | .20E-05 | 0.00 | .11E-06 | -90.000 | .23E-05 | 90.000 |
| 174. | 4788.263 | 0.000 | .20E-05 | 0.00 | .92E-07 | -90.000 | .23E-05 | 90.000 |
| 175. | 4788.475 | 0.000 | .20E-05 | 0.00 | .77E-07 | -90.000 | .23E-05 | 90.000 |
| 176. | 4788.646 | 0.000 | .20E-05 | 0.00 | .62E-07 | -90.000 | .23E-05 | 90.000 |
| 177. | 4788.776 | 0.000 | .20E-05 | 0.00 | .46E-07 | -90.000 | .23E-05 | 90.000 |
| 178. | 4788.869 | 0.000 | .20E-05 | 0.00 | .31E-07 | -90.000 | .23E-05 | 90.000 |
| 179. | 4788.923 | 0.000 | .20E-05 | 0.00 | .15E-07 | -90.000 | .23E-05 | 90.000 |
| 180. | 4788.942 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .23E-05 | 90.000 |

X-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5817.308 | -3.472 | .13E-05 | 0.00 | .57E-07 | 180.000 | .19E-05 | 90.000 |
| 1. | 5811.348 | -3.240 | .13E-05 | 0.00 | .37E-07 | -180.000 | .19E-05 | 90.000 |
| 2. | 5805.812 | -3.003 | .13E-05 | 0.00 | .21E-07 | -180.000 | .19E-05 | 90.000 |
| 3. | 5800.718 | -2.756 | .12E-05 | 0.00 | .93E-08 | -180.000 | .19E-05 | 90.000 |
| 4. | 5796.057 | -2.521 | .12E-05 | 0.00 | .20E-08 | 180.000 | .19E-05 | 90.000 |
| 5. | 5791.794 | -2.314 | .12E-05 | 0.00 | .67E-09 | 0.000 | .19E-05 | 90.000 |
| 6. | 5787.803 | -2.149 | .12E-05 | 0.00 | .98E-09 | 180.000 | .19E-05 | 90.000 |
| 7. | 5784.178 | -2.041 | .12E-05 | 0.00 | .66E-08 | 180.000 | .19E-05 | 90.000 |
| 8. | 5780.628 | -1.999 | .13E-05 | 0.00 | .19E-07 | 180.000 | .20E-05 | 90.000 |
| 9. | 5777.032 | -2.028 | .13E-05 | 0.00 | .27E-07 | -180.000 | .20E-05 | 90.000 |
| 10. | 5773.444 | -2.128 | .13E-05 | 0.00 | .40E-07 | 180.000 | .20E-05 | 90.000 |
| 11. | 5769.557 | -2.292 | .13E-05 | 0.00 | .53E-07 | -180.000 | .20E-05 | 90.000 |
| 12. | 5765.352 | -2.511 | .13E-05 | 0.00 | .67E-07 | 180.000 | .20E-05 | 90.000 |
| 13. | 5760.716 | -2.773 | .13E-05 | 0.00 | .79E-07 | 180.000 | .20E-05 | 90.000 |
| 14. | 5755.597 | -3.063 | .13E-05 | 0.00 | .90E-07 | -180.000 | .20E-05 | 90.000 |
| 15. | 5749.955 | -3.369 | .13E-05 | 0.00 | .99E-07 | -180.000 | .20E-05 | 90.000 |
| 16. | 5743.778 | -3.679 | .13E-05 | 0.00 | .11E-06 | 180.000 | .21E-05 | 90.000 |
| 17. | 5737.069 | -3.982 | .13E-05 | 0.00 | .11E-06 | 180.000 | .21E-05 | 90.000 |
| 18. | 5729.848 | -4.270 | .13E-05 | 0.00 | .11E-06 | -180.000 | .21E-05 | 90.000 |
| 19. | 5722.147 | -4.539 | .13E-05 | 0.00 | .12E-06 | 180.000 | .21E-05 | 90.000 |
| 20. | 5714.005 | -4.784 | .13E-05 | 0.00 | .11E-06 | -180.000 | .21E-05 | 90.000 |
| 21. | 5705.409 | -5.003 | .13E-05 | 0.00 | .11E-06 | -180.000 | .21E-05 | 90.000 |
| 22. | 5696.585 | -5.195 | .13E-05 | 0.00 | .11E-06 | -180.000 | .21E-05 | 90.000 |
| 23. | 5687.406 | -5.359 | .13E-05 | 0.00 | .11E-06 | -180.000 | .21E-05 | 90.000 |
| 24. | 5677.979 | -5.495 | .13E-05 | 0.00 | .10E-06 | 180.000 | .21E-05 | 90.000 |
| 25. | 5668.357 | -5.603 | .13E-05 | 0.00 | .97E-07 | 180.000 | .21E-05 | 90.000 |
| 26. | 5658.580 | -5.683 | .13E-05 | 0.00 | .92E-07 | 180.000 | .21E-05 | 90.000 |
| 27. | 5648.715 | -5.738 | .13E-05 | 0.00 | .86E-07 | 180.000 | .21E-05 | 90.000 |
| 28. | 5638.789 | -5.767 | .13E-05 | 0.00 | .81E-07 | 180.000 | .21E-05 | 90.000 |
| 29. | 5628.851 | -5.771 | .13E-05 | 0.00 | .76E-07 | 180.000 | .21E-05 | 90.000 |
| 30. | 5618.945 | -5.751 | .13E-05 | 0.00 | .71E-07 | 180.000 | .21E-05 | 90.000 |
| 31. | 5609.110 | -5.709 | .13E-05 | 0.00 | .66E-07 | 180.000 | .21E-05 | 90.000 |
| 32. | 5599.384 | -5.644 | .13E-05 | 0.00 | .61E-07 | 180.000 | .21E-05 | 90.000 |
| 33. | 5589.802 | -5.558 | .13E-05 | 0.00 | .56E-07 | 180.000 | .21E-05 | 90.000 |
| 34. | 5580.407 | -5.452 | .13E-05 | 0.00 | .51E-07 | 180.000 | .21E-05 | 90.000 |
| 35. | 5571.224 | -5.326 | .13E-05 | 0.00 | .47E-07 | 180.000 | .21E-05 | 90.000 |
| 36. | 5562.287 | -5.182 | .13E-05 | 0.00 | .42E-07 | 180.000 | .21E-05 | 90.000 |
| 37. | 5553.626 | -5.020 | .13E-05 | 0.00 | .38E-07 | 180.000 | .21E-05 | 90.000 |
| 38. | 5545.269 | -4.840 | .13E-05 | 0.00 | .35E-07 | 180.000 | .21E-05 | 90.000 |
| 39. | 5537.244 | -4.645 | .13E-05 | 0.00 | .31E-07 | 180.000 | .21E-05 | 90.000 |
| 40. | 5529.575 | -4.434 | .13E-05 | 0.00 | .28E-07 | 180.000 | .21E-05 | 90.000 |
| 41. | 5522.285 | -4.208 | .13E-05 | 0.00 | .24E-07 | 180.000 | .21E-05 | 90.000 |
| 42. | 5515.399 | -3.969 | .13E-05 | 0.00 | .21E-07 | 180.000 | .21E-05 | 90.000 |
| 43. | 5508.935 | -3.717 | .13E-05 | 0.00 | .18E-07 | 180.000 | .21E-05 | 90.000 |
| 44. | 5502.913 | -3.453 | .13E-05 | 0.00 | .16E-07 | 180.000 | .21E-05 | 90.000 |
| 45. | 5497.351 | -3.178 | .13E-05 | 0.00 | .13E-07 | 180.000 | .21E-05 | 90.000 |
| 46. | 5492.264 | -2.892 | .13E-05 | 0.00 | .10E-07 | 180.000 | .21E-05 | 90.000 |
| 47. | 5487.669 | -2.598 | .13E-05 | 0.00 | .78E-08 | 180.000 | .21E-05 | 90.000 |
| 48. | 5483.577 | -2.295 | .13E-05 | 0.00 | .53E-08 | 180.000 | .21E-05 | 90.000 |
| 49. | 5480.000 | -1.985 | .13E-05 | 0.00 | .29E-08 | 180.000 | .21E-05 | 90.000 |

X-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5476.949 | -1.669 | .13E-05 | 0.00 | .40E-09 | 180.000 | .21E-05 | 90.000 |
| 51. | 5474.432 | -1.347 | .12E-05 | 0.00 | .21E-08 | 0.000 | .21E-05 | 90.000 |
| 52. | 5472.456 | -1.021 | .12E-05 | 0.00 | .46E-08 | 0.000 | .21E-05 | 90.000 |
| 53. | 5471.028 | -.692 | .12E-05 | 0.00 | .71E-08 | 0.000 | .21E-05 | 90.000 |
| 54. | 5470.150 | -.361 | .12E-05 | 0.00 | .98E-08 | 0.000 | .21E-05 | 90.000 |
| 55. | 5469.825 | -.028 | .12E-05 | 0.00 | .12E-07 | 0.000 | .21E-05 | 90.000 |
| 56. | 5470.055 | .304 | .12E-05 | 0.00 | .15E-07 | 0.000 | .21E-05 | 90.000 |
| 57. | 5470.839 | .636 | .12E-05 | 0.00 | .18E-07 | 0.000 | .21E-05 | 90.000 |
| 58. | 5472.174 | .966 | .12E-05 | 0.00 | .22E-07 | 0.000 | .21E-05 | 90.000 |
| 59. | 5474.057 | 1.292 | .12E-05 | 0.00 | .25E-07 | 0.000 | .21E-05 | 90.000 |
| 60. | 5476.483 | 1.615 | .12E-05 | 0.00 | .29E-07 | 0.000 | .21E-05 | 90.000 |
| 61. | 5479.444 | 1.932 | .12E-05 | 0.00 | .32E-07 | 0.000 | .21E-05 | 90.000 |
| 62. | 5482.932 | 2.243 | .12E-05 | 0.00 | .36E-07 | 0.000 | .21E-05 | 90.000 |
| 63. | 5486.937 | 2.547 | .12E-05 | 0.00 | .41E-07 | 0.000 | .21E-05 | 90.000 |
| 64. | 5491.447 | 2.842 | .12E-05 | 0.00 | .45E-07 | 0.000 | .20E-05 | 90.000 |
| 65. | 5496.448 | 3.128 | .12E-05 | 0.00 | .50E-07 | 0.000 | .20E-05 | 90.000 |
| 66. | 5501.926 | 3.403 | .12E-05 | 0.00 | .55E-07 | 0.000 | .20E-05 | 90.000 |
| 67. | 5507.863 | 3.667 | .12E-05 | 0.00 | .61E-07 | 0.000 | .20E-05 | 90.000 |
| 68. | 5514.242 | 3.919 | .12E-05 | 0.00 | .67E-07 | 0.000 | .20E-05 | 90.000 |
| 69. | 5521.041 | 4.156 | .12E-05 | 0.00 | .73E-07 | 0.000 | .20E-05 | 90.000 |
| 70. | 5528.239 | 4.380 | .12E-05 | 0.00 | .80E-07 | 0.000 | .20E-05 | 90.000 |
| 71. | 5535.812 | 4.587 | .12E-05 | 0.00 | .87E-07 | 0.000 | .20E-05 | 90.000 |
| 72. | 5543.734 | 4.778 | .12E-05 | 0.00 | .95E-07 | 0.000 | .20E-05 | 90.000 |
| 73. | 5551.978 | 4.951 | .12E-05 | 0.00 | .10E-06 | 0.000 | .20E-05 | 90.000 |
| 74. | 5560.512 | 5.105 | .12E-05 | 0.00 | .11E-06 | 0.000 | .20E-05 | 90.000 |
| 75. | 5569.306 | 5.239 | .12E-05 | 0.00 | .12E-06 | 0.000 | .20E-05 | 90.000 |
| 76. | 5578.326 | 5.352 | .12E-05 | 0.00 | .13E-06 | 0.000 | .20E-05 | 90.000 |
| 77. | 5587.534 | 5.442 | .12E-05 | 0.00 | .14E-06 | 0.000 | .20E-05 | 90.000 |
| 78. | 5596.893 | 5.508 | .12E-05 | 0.00 | .15E-06 | 0.000 | .20E-05 | 90.000 |
| 79. | 5606.359 | 5.549 | .12E-05 | 0.00 | .16E-06 | 0.000 | .20E-05 | 90.000 |
| 80. | 5615.889 | 5.563 | .12E-05 | 0.00 | .17E-06 | 0.000 | .20E-05 | 90.000 |
| 81. | 5625.436 | 5.549 | .12E-05 | 0.00 | .18E-06 | 0.000 | .20E-05 | 90.000 |
| 82. | 5634.949 | 5.505 | .12E-05 | 0.00 | .19E-06 | 0.000 | .20E-05 | 90.000 |
| 83. | 5644.374 | 5.429 | .12E-05 | 0.00 | .20E-06 | 0.000 | .20E-05 | 90.000 |
| 84. | 5653.655 | 5.320 | .12E-05 | 0.00 | .21E-06 | 0.000 | .20E-05 | 90.000 |
| 85. | 5662.732 | 5.177 | .12E-05 | 0.00 | .21E-06 | 0.000 | .20E-05 | 90.000 |
| 86. | 5671.542 | 4.998 | .13E-05 | 0.00 | .22E-06 | 0.000 | .20E-05 | 90.000 |
| 87. | 5680.023 | 4.782 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 88. | 5688.109 | 4.532 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 89. | 5695.739 | 4.247 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 90. | 5702.857 | 3.934 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 91. | 5709.415 | 3.598 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 92. | 5715.382 | 3.251 | .13E-05 | 0.00 | .22E-06 | 0.000 | .20E-05 | 90.000 |
| 93. | 5720.746 | 2.905 | .13E-05 | 0.00 | .21E-06 | 0.000 | .20E-05 | 90.000 |
| 94. | 5725.525 | 2.577 | .13E-05 | 0.00 | .20E-06 | 0.000 | .20E-05 | 90.000 |
| 95. | 5729.761 | 2.283 | .13E-05 | 0.00 | .19E-06 | 0.000 | .20E-05 | 90.000 |
| 96. | 5733.528 | 2.040 | .13E-05 | 0.00 | .17E-06 | 0.000 | .20E-05 | 90.000 |
| 97. | 5736.927 | 1.861 | .13E-05 | 0.00 | .16E-06 | 0.000 | .20E-05 | 90.000 |
| 98. | 5740.075 | 1.752 | .12E-05 | 0.00 | .14E-06 | 0.000 | .20E-05 | 90.000 |
| 99. | 5743.097 | 1.715 | .12E-05 | 0.00 | .13E-06 | 0.000 | .20E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5746.117 | 1.746 | .12E-05 | 0.00 | .12E-06 | 0.000 | .20E-05 | 90.000 |
| 101. | 5749.247 | 1.837 | .12E-05 | 0.00 | .11E-06 | 0.000 | .20E-05 | 90.000 |
| 102. | 5752.382 | 1.976 | .12E-05 | 0.00 | .10E-06 | 0.000 | .20E-05 | 90.000 |
| 103. | 5756.196 | 2.151 | .13E-05 | 0.00 | .10E-06 | 0.000 | .20E-05 | 90.000 |
| 104. | 5760.141 | 2.348 | .13E-05 | 0.00 | .10E-06 | 0.000 | .20E-05 | 90.000 |
| 105. | 5764.446 | 2.550 | .13E-05 | 0.00 | .10E-06 | 0.000 | .20E-05 | 90.000 |
| 106. | 5769.123 | 2.754 | .13E-05 | 0.00 | .11E-06 | 0.000 | .20E-05 | 90.000 |
| 107. | 5774.105 | 2.965 | .13E-05 | 0.00 | .12E-06 | 0.000 | .20E-05 | 90.000 |
| 108. | 5779.556 | 3.193 | .13E-05 | 0.00 | .13E-06 | 0.000 | .20E-05 | 90.000 |
| 109. | 5785.267 | 3.322 | .13E-05 | 0.00 | .14E-06 | 0.000 | .20E-05 | 90.000 |
| 110. | 5791.205 | 3.470 | .13E-05 | 0.00 | .15E-06 | 0.000 | .20E-05 | 90.000 |
| 111. | 5797.512 | 3.595 | .13E-05 | 0.00 | .16E-06 | 0.000 | .20E-05 | 90.000 |
| 112. | 5803.966 | 3.697 | .14E-05 | 0.00 | .17E-06 | 0.000 | .20E-05 | 90.000 |
| 113. | 5810.589 | 3.776 | .14E-05 | 0.00 | .18E-06 | 0.000 | .20E-05 | 90.000 |
| 114. | 5817.340 | 3.833 | .14E-05 | 0.00 | .19E-06 | 0.000 | .20E-05 | 90.000 |
| 115. | 5824.183 | 3.870 | .14E-05 | 0.00 | .20E-06 | 0.000 | .20E-05 | 90.000 |
| 116. | 5831.081 | 3.887 | .14E-05 | 0.00 | .20E-06 | 0.000 | .20E-05 | 90.000 |
| 117. | 5838.001 | 3.886 | .14E-05 | 0.00 | .21E-06 | 0.000 | .20E-05 | 90.000 |
| 118. | 5844.914 | 3.869 | .15E-05 | 0.00 | .21E-06 | 0.000 | .20E-05 | 90.000 |
| 119. | 5851.790 | 3.837 | .15E-05 | 0.00 | .22E-06 | 0.000 | .20E-05 | 90.000 |
| 120. | 5858.605 | 3.792 | .15E-05 | 0.00 | .22E-06 | 0.000 | .21E-05 | 90.000 |
| 121. | 5865.335 | 3.734 | .15E-05 | 0.00 | .22E-06 | 0.000 | .21E-05 | 90.000 |
| 122. | 5871.960 | 3.665 | .15E-05 | 0.00 | .21E-06 | 0.000 | .21E-05 | 90.000 |
| 123. | 5878.458 | 3.586 | .15E-05 | 0.00 | .21E-06 | 0.000 | .21E-05 | 90.000 |
| 124. | 5884.814 | 3.498 | .15E-05 | 0.00 | .21E-06 | 0.000 | .21E-05 | 90.000 |
| 125. | 5891.010 | 3.402 | .15E-05 | 0.00 | .20E-06 | 0.000 | .21E-05 | 90.000 |
| 126. | 5897.032 | 3.297 | .16E-05 | 0.00 | .19E-06 | 0.000 | .21E-05 | 90.000 |
| 127. | 5902.860 | 3.186 | .16E-05 | 0.00 | .18E-06 | 0.000 | .21E-05 | 90.000 |
| 128. | 5908.489 | 3.069 | .16E-05 | 0.00 | .17E-06 | 0.000 | .21E-05 | 90.000 |
| 129. | 5913.919 | 2.945 | .16E-05 | 0.00 | .16E-06 | 0.000 | .21E-05 | 90.000 |
| 130. | 5919.116 | 2.816 | .16E-05 | 0.00 | .15E-06 | 0.000 | .21E-05 | 90.000 |
| 131. | 5924.079 | 2.682 | .16E-05 | 0.00 | .14E-06 | 0.000 | .21E-05 | 90.000 |
| 132. | 5928.800 | 2.544 | .16E-05 | 0.00 | .13E-06 | 0.000 | .21E-05 | 90.000 |
| 133. | 5933.270 | 2.401 | .16E-05 | 0.00 | .11E-06 | 0.000 | .21E-05 | 90.000 |
| 134. | 5937.480 | 2.254 | .16E-05 | 0.00 | .96E-07 | 0.000 | .21E-05 | 90.000 |
| 135. | 5941.424 | 2.103 | .16E-05 | 0.00 | .81E-07 | 0.000 | .21E-05 | 90.000 |
| 136. | 5945.094 | 1.949 | .16E-05 | 0.00 | .65E-07 | 0.000 | .21E-05 | 90.000 |
| 137. | 5948.484 | 1.792 | .17E-05 | 0.00 | .48E-07 | 0.000 | .21E-05 | 90.000 |
| 138. | 5951.589 | 1.632 | .17E-05 | 0.00 | .31E-07 | 0.000 | .21E-05 | 90.000 |
| 139. | 5954.402 | 1.470 | .17E-05 | 0.00 | .14E-07 | 0.000 | .21E-05 | 90.000 |
| 140. | 5956.920 | 1.305 | .17E-05 | 0.00 | .40E-08 | 100.000 | .21E-05 | 90.000 |
| 141. | 5959.138 | 1.138 | .17E-05 | 0.00 | .22E-07 | -180.000 | .21E-05 | 90.000 |
| 142. | 5961.052 | .969 | .17E-05 | 0.00 | .40E-07 | 180.000 | .21E-05 | 90.000 |
| 143. | 5962.658 | .799 | .17E-05 | 0.00 | .58E-07 | 180.000 | .21E-05 | 90.000 |
| 144. | 5963.954 | .627 | .17E-05 | 0.00 | .77E-07 | -180.000 | .21E-05 | 90.000 |
| 145. | 5964.936 | .454 | .17E-05 | 0.00 | .95E-07 | 180.000 | .21E-05 | 90.000 |
| 146. | 5965.603 | .280 | .17E-05 | 0.00 | .11E-06 | 180.000 | .21E-05 | 90.000 |
| 147. | 5965.952 | .104 | .17E-05 | 0.00 | .13E-06 | 180.000 | .21E-05 | 90.000 |
| 148. | 5965.981 | -.072 | .17E-05 | 0.00 | .15E-06 | 180.000 | .21E-05 | 90.000 |
| 149. | 5965.691 | -.248 | .17E-05 | 0.00 | .17E-06 | 180.000 | .21E-05 | 90.000 |

X-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5965.079 | -.425 | .17E-05 | 0.00 | .19E-06 | -180.000 | .21E-05 | 90.000 |
| 151. | 5964.146 | -.602 | .17E-05 | 0.00 | .20E-06 | 180.000 | .21E-05 | 90.000 |
| 152. | 5962.891 | -.779 | .17E-05 | 0.00 | .22E-06 | -180.000 | .21E-05 | 90.000 |
| 153. | 5961.315 | -.957 | .17E-05 | 0.00 | .24E-06 | -180.000 | .21E-05 | 90.000 |
| 154. | 5959.417 | -1.134 | .16E-05 | 0.00 | .25E-06 | -180.000 | .21E-05 | 90.000 |
| 155. | 5957.198 | -1.310 | .16E-05 | 0.00 | .27E-06 | -180.000 | .21E-05 | 90.000 |
| 156. | 5954.660 | -1.487 | .16E-05 | 0.00 | .28E-06 | -180.000 | .21E-05 | 90.000 |
| 157. | 5951.804 | -1.662 | .16E-05 | 0.00 | .29E-06 | -180.000 | .21E-05 | 90.000 |
| 158. | 5948.631 | -1.837 | .16E-05 | 0.00 | .30E-06 | -180.000 | .21E-05 | 90.000 |
| 159. | 5945.144 | -2.012 | .16E-05 | 0.00 | .32E-06 | -180.000 | .21E-05 | 90.000 |
| 160. | 5941.343 | -2.185 | .16E-05 | 0.00 | .32E-06 | -180.000 | .21E-05 | 90.000 |
| 161. | 5937.233 | -2.357 | .16E-05 | 0.00 | .33E-06 | -180.000 | .21E-05 | 90.000 |
| 162. | 5932.815 | -2.527 | .16E-05 | 0.00 | .34E-06 | -180.000 | .21E-05 | 90.000 |
| 163. | 5928.093 | -2.696 | .16E-05 | 0.00 | .34E-06 | -180.000 | .21E-05 | 90.000 |
| 164. | 5923.073 | -2.862 | .16E-05 | 0.00 | .34E-06 | -180.000 | .21E-05 | 90.000 |
| 165. | 5917.758 | -3.026 | .15E-05 | 0.00 | .34E-06 | 180.000 | .21E-05 | 90.000 |
| 166. | 5912.157 | -3.185 | .15E-05 | 0.00 | .34E-06 | -180.000 | .20E-05 | 90.000 |
| 167. | 5906.277 | -3.340 | .15E-05 | 0.00 | .34E-06 | -180.000 | .20E-05 | 90.000 |
| 168. | 5900.130 | -3.487 | .15E-05 | 0.00 | .33E-06 | -180.000 | .20E-05 | 90.000 |
| 169. | 5893.732 | -3.626 | .15E-05 | 0.00 | .32E-06 | -180.000 | .20E-05 | 90.000 |
| 170. | 5887.101 | -3.753 | .15E-05 | 0.00 | .30E-06 | 180.000 | .20E-05 | 90.000 |
| 171. | 5880.263 | -3.864 | .14E-05 | 0.00 | .28E-06 | 180.000 | .20E-05 | 90.000 |
| 172. | 5873.250 | -3.956 | .14E-05 | 0.00 | .26E-06 | 180.000 | .20E-05 | 90.000 |
| 173. | 5866.101 | -4.023 | .14E-05 | 0.00 | .24E-06 | -180.000 | .20E-05 | 90.000 |
| 174. | 5858.866 | -4.061 | .14E-05 | 0.00 | .22E-06 | -180.000 | .20E-05 | 90.000 |
| 175. | 5851.602 | -4.064 | .14E-05 | 0.00 | .19E-06 | -180.000 | .20E-05 | 90.000 |
| 176. | 5844.376 | -4.029 | .13E-05 | 0.00 | .16E-06 | 180.000 | .20E-05 | 90.000 |
| 177. | 5837.256 | -3.952 | .13E-05 | 0.00 | .13E-06 | 180.000 | .19E-05 | 90.000 |
| 178. | 5830.326 | -3.831 | .13E-05 | 0.00 | .11E-06 | -180.000 | .19E-05 | 90.000 |
| 179. | 5823.653 | -3.670 | .13E-05 | 0.00 | .81E-07 | 180.000 | .19E-05 | 90.000 |
| 180. | 5817.308 | -3.472 | .13E-05 | 0.00 | .57E-07 | -180.000 | .19E-05 | 90.000 |

Y-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | -90.000 | .15E-05 | 90.000 |
| 1. | 5640.099 | .745 | .94E-06 | 0.00 | .97E-06 | -88.871 | .15E-05 | 90.646 |
| 2. | 5642.012 | 1.478 | .94E-06 | 0.00 | .97E-06 | -87.748 | .15E-05 | 91.286 |
| 3. | 5645.165 | 2.184 | .95E-06 | 0.00 | .96E-06 | -86.637 | .15E-05 | 91.914 |
| 4. | 5649.507 | 2.853 | .96E-06 | 0.00 | .96E-06 | -85.542 | .15E-05 | 92.525 |
| 5. | 5654.967 | 3.472 | .97E-06 | 0.00 | .95E-06 | -84.469 | .15E-05 | 93.113 |
| 6. | 5661.450 | 4.029 | .98E-06 | 0.00 | .94E-06 | -83.422 | .16E-05 | 93.673 |
| 7. | 5668.846 | 4.513 | .10E-05 | 0.00 | .92E-06 | -82.403 | .16E-05 | 94.202 |
| 8. | 5677.023 | 4.915 | .10E-05 | 0.00 | .90E-06 | -81.417 | .16E-05 | 94.697 |
| 9. | 5685.834 | 5.225 | .10E-05 | 0.00 | .89E-06 | -80.464 | .16E-05 | 95.156 |
| 10. | 5695.115 | 5.436 | .11E-05 | 0.00 | .86E-06 | -79.546 | .17E-05 | 95.578 |
| 11. | 5704.692 | 5.544 | .11E-05 | 0.00 | .84E-06 | -78.661 | .17E-05 | 95.961 |
| 12. | 5714.381 | 5.545 | .11E-05 | 0.00 | .81E-06 | -77.809 | .17E-05 | 96.307 |
| 13. | 5723.996 | 5.441 | .12E-05 | 0.00 | .78E-06 | -76.988 | .18E-05 | 96.617 |
| 14. | 5733.353 | 5.235 | .12E-05 | 0.00 | .74E-06 | -76.195 | .18E-05 | 96.894 |
| 15. | 5742.275 | 4.933 | .12E-05 | 0.00 | .71E-06 | -75.427 | .18E-05 | 97.138 |
| 16. | 5750.603 | 4.547 | .12E-05 | 0.00 | .67E-06 | -74.679 | .19E-05 | 97.354 |
| 17. | 5758.195 | 4.088 | .13E-05 | 0.00 | .63E-06 | -73.948 | .19E-05 | 97.545 |
| 18. | 5764.935 | 3.573 | .13E-05 | 0.00 | .58E-06 | -73.228 | .19E-05 | 97.714 |
| 19. | 5770.734 | 3.016 | .13E-05 | 0.00 | .54E-06 | -72.514 | .19E-05 | 97.863 |
| 20. | 5775.531 | 2.433 | .13E-05 | 0.00 | .49E-06 | -71.800 | .20E-05 | 97.997 |
| 21. | 5779.293 | 1.839 | .13E-05 | 0.00 | .45E-06 | -71.080 | .20E-05 | 98.117 |
| 22. | 5782.011 | 1.249 | .14E-05 | 0.00 | .40E-06 | -70.344 | .20E-05 | 98.226 |
| 23. | 5783.700 | .671 | .14E-05 | 0.00 | .36E-06 | -69.583 | .20E-05 | 98.326 |
| 24. | 5784.390 | .117 | .14E-05 | 0.00 | .32E-06 | -68.780 | .20E-05 | 98.419 |
| 25. | 5784.127 | -.409 | .14E-05 | 0.00 | .28E-06 | -67.913 | .20E-05 | 98.506 |
| 26. | 5782.968 | -.901 | .14E-05 | 0.00 | .24E-06 | -66.949 | .21E-05 | 98.587 |
| 27. | 5780.973 | -1.357 | .14E-05 | 0.00 | .20E-06 | -65.830 | .21E-05 | 98.663 |
| 28. | 5778.210 | -1.775 | .14E-05 | 0.00 | .16E-06 | -64.455 | .21E-05 | 98.735 |
| 29. | 5774.746 | -2.154 | .14E-05 | 0.00 | .13E-06 | -62.626 | .21E-05 | 98.803 |
| 30. | 5770.649 | -2.496 | .14E-05 | 0.00 | .95E-07 | -59.595 | .21E-05 | 98.868 |
| 31. | 5765.988 | -2.800 | .14E-05 | 0.00 | .64E-07 | -55.026 | .21E-05 | 98.928 |
| 32. | 5760.826 | -3.069 | .14E-05 | 0.00 | .36E-07 | -43.074 | .21E-05 | 98.985 |
| 33. | 5755.227 | -3.303 | .14E-05 | 0.00 | .16E-07 | 8.966 | .21E-05 | 99.037 |
| 34. | 5749.252 | -3.504 | .14E-05 | 0.00 | .28E-07 | 79.152 | .21E-05 | 99.085 |
| 35. | 5742.957 | -3.674 | .14E-05 | 0.00 | .52E-07 | 94.986 | .21E-05 | 99.128 |
| 36. | 5736.398 | -3.813 | .14E-05 | 0.00 | .76E-07 | 100.632 | .21E-05 | 99.166 |
| 37. | 5729.628 | -3.924 | .14E-05 | 0.00 | .10E-06 | 103.500 | .21E-05 | 99.199 |
| 38. | 5722.694 | -4.008 | .14E-05 | 0.00 | .12E-06 | 105.231 | .21E-05 | 99.227 |
| 39. | 5715.646 | -4.066 | .14E-05 | 0.00 | .14E-06 | 106.377 | .21E-05 | 99.248 |
| 40. | 5708.527 | -4.099 | .14E-05 | 0.00 | .16E-06 | 107.175 | .21E-05 | 99.264 |
| 41. | 5701.381 | -4.108 | .14E-05 | 0.00 | .18E-06 | 107.744 | .21E-05 | 99.273 |
| 42. | 5694.247 | -4.094 | .14E-05 | 0.00 | .20E-06 | 108.148 | .21E-05 | 99.275 |
| 43. | 5687.166 | -4.059 | .14E-05 | 0.00 | .22E-06 | 108.426 | .21E-05 | 99.271 |
| 44. | 5680.173 | -4.002 | .14E-05 | 0.00 | .24E-06 | 108.601 | .21E-05 | 99.258 |
| 45. | 5673.305 | -3.925 | .14E-05 | 0.00 | .25E-06 | 108.690 | .20E-05 | 99.239 |
| 46. | 5666.596 | -3.829 | .14E-05 | 0.00 | .27E-06 | 108.705 | .20E-05 | 99.211 |
| 47. | 5660.076 | -3.715 | .14E-05 | 0.00 | .28E-06 | 108.651 | .20E-05 | 99.175 |
| 48. | 5653.777 | -3.583 | .14E-05 | 0.00 | .30E-06 | 108.535 | .20E-05 | 99.130 |
| 49. | 5647.728 | -3.434 | .14E-05 | 0.00 | .31E-06 | 108.361 | .20E-05 | 99.076 |

Y-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5641.957 | -3.268 | .13E-05 | 0.00 | .33E-06 | 108.132 | .20E-05 | 99.014 |
| 51. | 5636.491 | -3.087 | .13E-05 | 0.00 | .34E-06 | 107.848 | .20E-05 | 98.942 |
| 52. | 5631.353 | -2.892 | .13E-05 | 0.00 | .35E-06 | 107.513 | .20E-05 | 98.860 |
| 53. | 5626.568 | -2.683 | .13E-05 | 0.00 | .36E-06 | 107.127 | .20E-05 | 98.769 |
| 54. | 5622.158 | -2.460 | .13E-05 | 0.00 | .37E-06 | 106.691 | .20E-05 | 98.668 |
| 55. | 5618.143 | -2.226 | .13E-05 | 0.00 | .38E-06 | 106.205 | .20E-05 | 98.557 |
| 56. | 5614.543 | -1.980 | .13E-05 | 0.00 | .39E-06 | 105.669 | .20E-05 | 98.435 |
| 57. | 5611.374 | -1.723 | .13E-05 | 0.00 | .40E-06 | 105.085 | .20E-05 | 98.303 |
| 58. | 5608.654 | -1.458 | .13E-05 | 0.00 | .41E-06 | 104.451 | .20E-05 | 98.161 |
| 59. | 5606.397 | -1.184 | .13E-05 | 0.00 | .42E-06 | 103.768 | .20E-05 | 98.008 |
| 60. | 5604.615 | -.902 | .13E-05 | 0.00 | .43E-06 | 103.035 | .20E-05 | 97.844 |
| 61. | 5603.319 | -.615 | .13E-05 | 0.00 | .43E-06 | 102.253 | .20E-05 | 97.670 |
| 62. | 5602.519 | -.322 | .13E-05 | 0.00 | .44E-06 | 101.422 | .20E-05 | 97.485 |
| 63. | 5602.223 | -.025 | .13E-05 | 0.00 | .44E-06 | 100.540 | .20E-05 | 97.290 |
| 64. | 5602.435 | .274 | .12E-05 | 0.00 | .45E-06 | 99.610 | .20E-05 | 97.084 |
| 65. | 5603.160 | .575 | .12E-05 | 0.00 | .45E-06 | 98.629 | .20E-05 | 96.869 |
| 66. | 5604.397 | .875 | .12E-05 | 0.00 | .46E-06 | 97.599 | .20E-05 | 96.644 |
| 67. | 5606.147 | 1.174 | .12E-05 | 0.00 | .46E-06 | 96.521 | .20E-05 | 96.409 |
| 68. | 5608.405 | 1.469 | .12E-05 | 0.00 | .46E-06 | 95.394 | .20E-05 | 96.166 |
| 69. | 5611.165 | 1.759 | .12E-05 | 0.00 | .46E-06 | 94.219 | .20E-05 | 95.915 |
| 70. | 5614.418 | 2.043 | .12E-05 | 0.00 | .46E-06 | 92.999 | .20E-05 | 95.656 |
| 71. | 5618.150 | 2.317 | .12E-05 | 0.00 | .46E-06 | 91.734 | .20E-05 | 95.390 |
| 72. | 5622.346 | 2.580 | .12E-05 | 0.00 | .46E-06 | 90.427 | .20E-05 | 95.119 |
| 73. | 5626.986 | 2.829 | .12E-05 | 0.00 | .46E-06 | 89.081 | .20E-05 | 94.843 |
| 74. | 5632.043 | 3.061 | .12E-05 | 0.00 | .45E-06 | 87.699 | .20E-05 | 94.564 |
| 75. | 5637.489 | 3.273 | .12E-05 | 0.00 | .45E-06 | 86.286 | .20E-05 | 94.283 |
| 76. | 5643.285 | 3.462 | .12E-05 | 0.00 | .44E-06 | 84.848 | .20E-05 | 94.002 |
| 77. | 5649.389 | 3.622 | .12E-05 | 0.00 | .43E-06 | 83.391 | .20E-05 | 93.722 |
| 78. | 5655.748 | 3.748 | .12E-05 | 0.00 | .42E-06 | 81.924 | .20E-05 | 93.446 |
| 79. | 5662.299 | 3.834 | .12E-05 | 0.00 | .41E-06 | 80.457 | .20E-05 | 93.176 |
| 80. | 5668.967 | 3.874 | .12E-05 | 0.00 | .39E-06 | 79.003 | .20E-05 | 92.913 |
| 81. | 5675.665 | 3.857 | .12E-05 | 0.00 | .37E-06 | 77.577 | .20E-05 | 92.662 |
| 82. | 5682.288 | 3.776 | .12E-05 | 0.00 | .35E-06 | 76.196 | .20E-05 | 92.424 |
| 83. | 5688.713 | 3.619 | .12E-05 | 0.00 | .32E-06 | 74.880 | .20E-05 | 92.202 |
| 84. | 5694.798 | 3.377 | .12E-05 | 0.00 | .29E-06 | 73.654 | .20E-05 | 92.001 |
| 85. | 5700.386 | 3.039 | .12E-05 | 0.00 | .25E-06 | 72.545 | .20E-05 | 91.823 |
| 86. | 5705.303 | 2.601 | .13E-05 | 0.00 | .21E-06 | 71.580 | .20E-05 | 91.671 |
| 87. | 5709.373 | 2.062 | .13E-05 | 0.00 | .16E-06 | 70.789 | .20E-05 | 91.550 |
| 88. | 5712.427 | 1.434 | .13E-05 | 0.00 | .11E-06 | 70.201 | .20E-05 | 91.460 |
| 89. | 5714.322 | .736 | .13E-05 | 0.00 | .56E-07 | 69.837 | .20E-05 | 91.406 |
| 90. | 5714.966 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 91.387 |
| 91. | 5714.322 | -.736 | .13E-05 | 0.00 | .56E-07 | -110.163 | .20E-05 | 91.406 |
| 92. | 5712.427 | -1.434 | .13E-05 | 0.00 | .11E-06 | -109.799 | .20E-05 | 91.460 |
| 93. | 5709.373 | -2.062 | .13E-05 | 0.00 | .16E-06 | -109.211 | .20E-05 | 91.550 |
| 94. | 5705.303 | -2.601 | .13E-05 | 0.00 | .21E-06 | -108.420 | .20E-05 | 91.671 |
| 95. | 5700.386 | -3.039 | .12E-05 | 0.00 | .25E-06 | -107.455 | .20E-05 | 91.823 |
| 96. | 5694.798 | -3.377 | .12E-05 | 0.00 | .29E-06 | -106.346 | .20E-05 | 92.001 |
| 97. | 5688.713 | -3.619 | .12E-05 | 0.00 | .32E-06 | -105.120 | .20E-05 | 92.202 |
| 98. | 5682.288 | -3.776 | .12E-05 | 0.00 | .35E-06 | -103.804 | .20E-05 | 92.424 |
| 99. | 5675.665 | -3.857 | .12E-05 | 0.00 | .37E-06 | -102.423 | .20E-05 | 92.662 |

Y-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5668.967 | -3.874 | .12E-05 | 0.00 | .39E-06 | -100.997 | .20E-05 | 92.913 |
| 101. | 5662.299 | -3.834 | .12E-05 | 0.00 | .41E-06 | -99.543 | .20E-05 | 93.176 |
| 102. | 5655.748 | -3.748 | .12E-05 | 0.00 | .42E-06 | -98.076 | .20E-05 | 93.446 |
| 103. | 5649.389 | -3.622 | .12E-05 | 0.00 | .43E-06 | -96.609 | .20E-05 | 93.722 |
| 104. | 5643.285 | -3.462 | .12E-05 | 0.00 | .44E-06 | -95.152 | .20E-05 | 94.002 |
| 105. | 5637.489 | -3.273 | .12E-05 | 0.00 | .45E-06 | -93.714 | .20E-05 | 94.283 |
| 106. | 5632.043 | -3.061 | .12E-05 | 0.00 | .45E-06 | -92.301 | .20E-05 | 94.564 |
| 107. | 5626.986 | -2.829 | .12E-05 | 0.00 | .46E-06 | -90.919 | .20E-05 | 94.843 |
| 108. | 5622.346 | -2.580 | .12E-05 | 0.00 | .46E-06 | -89.573 | .20E-05 | 95.119 |
| 109. | 5618.150 | -2.317 | .12E-05 | 0.00 | .46E-06 | -88.266 | .20E-05 | 95.390 |
| 110. | 5614.418 | -2.043 | .12E-05 | 0.00 | .46E-06 | -87.001 | .20E-05 | 95.656 |
| 111. | 5611.165 | -1.759 | .12E-05 | 0.00 | .46E-06 | -85.781 | .20E-05 | 95.915 |
| 112. | 5608.405 | -1.469 | .12E-05 | 0.00 | .46E-06 | -84.606 | .20E-05 | 96.166 |
| 113. | 5606.147 | -1.174 | .12E-05 | 0.00 | .46E-06 | -83.479 | .20E-05 | 96.409 |
| 114. | 5604.397 | -.875 | .12E-05 | 0.00 | .46E-06 | -82.401 | .20E-05 | 96.644 |
| 115. | 5603.160 | -.575 | .12E-05 | 0.00 | .45E-06 | -81.371 | .20E-05 | 96.869 |
| 116. | 5602.435 | -.274 | .12E-05 | 0.00 | .45E-06 | -80.390 | .20E-05 | 97.084 |
| 117. | 5602.223 | .025 | .13E-05 | 0.00 | .44E-06 | -79.460 | .20E-05 | 97.290 |
| 118. | 5602.519 | .322 | .13E-05 | 0.00 | .44E-06 | -78.578 | .20E-05 | 97.485 |
| 119. | 5603.319 | .615 | .13E-05 | 0.00 | .43E-06 | -77.747 | .20E-05 | 97.670 |
| 120. | 5604.615 | .902 | .13E-05 | 0.00 | .43E-06 | -76.965 | .20E-05 | 97.844 |
| 121. | 5606.397 | 1.184 | .13E-05 | 0.00 | .42E-06 | -76.232 | .20E-05 | 98.008 |
| 122. | 5608.654 | 1.458 | .13E-05 | 0.00 | .41E-06 | -75.549 | .20E-05 | 98.161 |
| 123. | 5611.374 | 1.723 | .13E-05 | 0.00 | .40E-06 | -74.915 | .20E-05 | 98.303 |
| 124. | 5614.543 | 1.980 | .13E-05 | 0.00 | .39E-06 | -74.331 | .20E-05 | 98.435 |
| 125. | 5618.143 | 2.226 | .13E-05 | 0.00 | .38E-06 | -73.795 | .20E-05 | 98.557 |
| 126. | 5622.158 | 2.460 | .13E-05 | 0.00 | .37E-06 | -73.309 | .20E-05 | 98.668 |
| 127. | 5626.568 | 2.683 | .13E-05 | 0.00 | .36E-06 | -72.873 | .20E-05 | 98.769 |
| 128. | 5631.353 | 2.892 | .13E-05 | 0.00 | .35E-06 | -72.487 | .20E-05 | 98.860 |
| 129. | 5636.491 | 3.087 | .13E-05 | 0.00 | .34E-06 | -72.152 | .20E-05 | 98.942 |
| 130. | 5641.957 | 3.268 | .13E-05 | 0.00 | .33E-06 | -71.868 | .20E-05 | 99.014 |
| 131. | 5647.728 | 3.434 | .14E-05 | 0.00 | .31E-06 | -71.639 | .20E-05 | 99.076 |
| 132. | 5653.777 | 3.583 | .14E-05 | 0.00 | .30E-06 | -71.465 | .20E-05 | 99.130 |
| 133. | 5660.076 | 3.715 | .14E-05 | 0.00 | .28E-06 | -71.349 | .20E-05 | 99.175 |
| 134. | 5666.596 | 3.829 | .14E-05 | 0.00 | .27E-06 | -71.295 | .20E-05 | 99.211 |
| 135. | 5673.305 | 3.925 | .14E-05 | 0.00 | .25E-06 | -71.310 | .20E-05 | 99.239 |
| 136. | 5680.173 | 4.002 | .14E-05 | 0.00 | .24E-06 | -71.399 | .21E-05 | 99.258 |
| 137. | 5687.166 | 4.059 | .14E-05 | 0.00 | .22E-06 | -71.574 | .21E-05 | 99.271 |
| 138. | 5694.247 | 4.094 | .14E-05 | 0.00 | .20E-06 | -71.852 | .21E-05 | 99.275 |
| 139. | 5701.381 | 4.108 | .14E-05 | 0.00 | .18E-06 | -72.256 | .21E-05 | 99.273 |
| 140. | 5708.527 | 4.099 | .14E-05 | 0.00 | .16E-06 | -72.825 | .21E-05 | 99.264 |
| 141. | 5715.646 | 4.066 | .14E-05 | 0.00 | .14E-06 | -73.623 | .21E-05 | 99.248 |
| 142. | 5722.694 | 4.008 | .14E-05 | 0.00 | .12E-06 | -74.769 | .21E-05 | 99.227 |
| 143. | 5729.628 | 3.924 | .14E-05 | 0.00 | .10E-06 | -76.500 | .21E-05 | 99.199 |
| 144. | 5736.398 | 3.813 | .14E-05 | 0.00 | .76E-07 | -79.368 | .21E-05 | 99.166 |
| 145. | 5742.957 | 3.674 | .14E-05 | 0.00 | .52E-07 | -85.014 | .21E-05 | 99.128 |
| 146. | 5749.252 | 3.504 | .14E-05 | 0.00 | .28E-07 | -100.848 | .21E-05 | 99.085 |
| 147. | 5755.227 | 3.303 | .14E-05 | 0.00 | .16E-07 | -171.034 | .21E-05 | 99.037 |
| 148. | 5760.826 | 3.069 | .14E-05 | 0.00 | .36E-07 | 136.926 | .21E-05 | 98.985 |
| 149. | 5765.988 | 2.800 | .14E-05 | 0.00 | .64E-07 | 124.974 | .21E-05 | 98.928 |

Y-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5770.649 | 2.496 | .14E-05 | 0.00 | .95E-07 | 120.105 | .21E-05 | 98.868 |
| 151. | 5774.746 | 2.154 | .14E-05 | 0.00 | .13E-06 | 117.374 | .21E-05 | 98.803 |
| 152. | 5778.210 | 1.775 | .14E-05 | 0.00 | .16E-06 | 115.545 | .21E-05 | 98.735 |
| 153. | 5780.973 | 1.357 | .14E-05 | 0.00 | .20E-06 | 114.170 | .21E-05 | 98.663 |
| 154. | 5782.968 | .901 | .14E-05 | 0.00 | .24E-06 | 113.051 | .21E-05 | 98.587 |
| 155. | 5784.127 | .409 | .14E-05 | 0.00 | .28E-06 | 112.087 | .20E-05 | 98.506 |
| 156. | 5784.390 | -.117 | .14E-05 | 0.00 | .32E-06 | 111.220 | .20E-05 | 98.419 |
| 157. | 5783.700 | -.671 | .14E-05 | 0.00 | .36E-06 | 110.417 | .20E-05 | 98.326 |
| 158. | 5782.011 | -1.249 | .14E-05 | 0.00 | .40E-06 | 109.656 | .20E-05 | 98.226 |
| 159. | 5779.293 | -1.839 | .13E-05 | 0.00 | .45E-06 | 108.920 | .20E-05 | 98.117 |
| 160. | 5775.531 | -2.433 | .13E-05 | 0.00 | .49E-06 | 108.200 | .20E-05 | 97.997 |
| 161. | 5770.734 | -3.016 | .13E-05 | 0.00 | .54E-06 | 107.486 | .19E-05 | 97.863 |
| 162. | 5764.935 | -3.573 | .13E-05 | 0.00 | .58E-06 | 106.772 | .19E-05 | 97.714 |
| 163. | 5758.195 | -4.088 | .13E-05 | 0.00 | .63E-06 | 106.052 | .19E-05 | 97.545 |
| 164. | 5750.603 | -4.547 | .12E-05 | 0.00 | .67E-06 | 105.321 | .19E-05 | 97.354 |
| 165. | 5742.275 | -4.933 | .12E-05 | 0.00 | .71E-06 | 104.573 | .18E-05 | 97.138 |
| 166. | 5733.353 | -5.235 | .12E-05 | 0.00 | .74E-06 | 103.805 | .18E-05 | 96.894 |
| 167. | 5723.996 | -5.441 | .12E-05 | 0.00 | .78E-06 | 103.012 | .18E-05 | 96.617 |
| 168. | 5714.381 | -5.545 | .11E-05 | 0.00 | .81E-06 | 102.191 | .17E-05 | 96.307 |
| 169. | 5704.692 | -5.544 | .11E-05 | 0.00 | .84E-06 | 101.339 | .17E-05 | 95.961 |
| 170. | 5695.115 | -5.436 | .11E-05 | 0.00 | .86E-06 | 100.454 | .17E-05 | 95.578 |
| 171. | 5685.834 | -5.225 | .10E-05 | 0.00 | .89E-06 | 99.536 | .16E-05 | 95.156 |
| 172. | 5677.023 | -4.915 | .10E-05 | 0.00 | .90E-06 | 98.583 | .16E-05 | 94.697 |
| 173. | 5668.846 | -4.513 | .10E-05 | 0.00 | .92E-06 | 97.597 | .16E-05 | 94.202 |
| 174. | 5661.450 | -4.029 | .98E-06 | 0.00 | .94E-06 | 96.578 | .16E-05 | 93.673 |
| 175. | 5654.967 | -3.472 | .97E-06 | 0.00 | .95E-06 | 95.531 | .15E-05 | 93.113 |
| 176. | 5649.507 | -2.853 | .96E-06 | 0.00 | .96E-06 | 94.458 | .15E-05 | 92.525 |
| 177. | 5645.165 | -2.184 | .95E-06 | 0.00 | .96E-06 | 93.363 | .15E-05 | 91.914 |
| 178. | 5642.012 | -1.478 | .94E-06 | 0.00 | .97E-06 | 92.252 | .15E-05 | 91.286 |
| 179. | 5640.099 | -.745 | .94E-06 | 0.00 | .97E-06 | 91.129 | .15E-05 | 90.646 |
| 180. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | 90.000 | .15E-05 | 90.000 |

Z-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | 90.000 | .18E-05 | 90.000 |
| 1. | 5555.528 | .418 | .11E-05 | 0.00 | .65E-06 | 89.131 | .18E-05 | 89.650 |
| 2. | 5556.587 | .833 | .11E-05 | 0.00 | .65E-06 | 88.264 | .18E-05 | 89.301 |
| 3. | 5558.345 | 1.242 | .11E-05 | 0.00 | .64E-06 | 87.401 | .18E-05 | 88.954 |
| 4. | 5560.788 | 1.641 | .11E-05 | 0.00 | .64E-06 | 86.544 | .18E-05 | 88.612 |
| 5. | 5563.900 | 2.028 | .11E-05 | 0.00 | .63E-06 | 85.696 | .18E-05 | 88.274 |
| 6. | 5567.658 | 2.400 | .11E-05 | 0.00 | .63E-06 | 84.857 | .18E-05 | 87.943 |
| 7. | 5572.035 | 2.753 | .11E-05 | 0.00 | .62E-06 | 84.030 | .19E-05 | 87.620 |
| 8. | 5577.000 | 3.085 | .11E-05 | 0.00 | .61E-06 | 83.217 | .19E-05 | 87.305 |
| 9. | 5582.513 | 3.392 | .11E-05 | 0.00 | .60E-06 | 82.420 | .19E-05 | 87.000 |
| 10. | 5588.534 | 3.671 | .11E-05 | 0.00 | .59E-06 | 81.641 | .19E-05 | 86.705 |
| 11. | 5595.013 | 3.919 | .11E-05 | 0.00 | .58E-06 | 80.881 | .19E-05 | 86.423 |
| 12. | 5601.896 | 4.134 | .11E-05 | 0.00 | .57E-06 | 80.144 | .19E-05 | 86.152 |
| 13. | 5609.125 | 4.312 | .11E-05 | 0.00 | .55E-06 | 79.430 | .19E-05 | 85.895 |
| 14. | 5616.636 | 4.449 | .11E-05 | 0.00 | .53E-06 | 78.742 | .19E-05 | 85.652 |
| 15. | 5624.357 | 4.544 | .12E-05 | 0.00 | .51E-06 | 78.081 | .19E-05 | 85.422 |
| 16. | 5632.213 | 4.593 | .12E-05 | 0.00 | .49E-06 | 77.450 | .19E-05 | 85.208 |
| 17. | 5640.123 | 4.594 | .12E-05 | 0.00 | .47E-06 | 76.851 | .19E-05 | 85.009 |
| 18. | 5648.002 | 4.543 | .12E-05 | 0.00 | .45E-06 | 76.285 | .20E-05 | 84.825 |
| 19. | 5655.758 | 4.439 | .12E-05 | 0.00 | .42E-06 | 75.754 | .20E-05 | 84.657 |
| 20. | 5663.297 | 4.281 | .12E-05 | 0.00 | .39E-06 | 75.261 | .20E-05 | 84.504 |
| 21. | 5670.523 | 4.067 | .12E-05 | 0.00 | .36E-06 | 74.807 | .20E-05 | 84.366 |
| 22. | 5677.336 | 3.796 | .12E-05 | 0.00 | .33E-06 | 74.394 | .20E-05 | 84.244 |
| 23. | 5683.639 | 3.470 | .12E-05 | 0.00 | .29E-06 | 74.025 | .20E-05 | 84.137 |
| 24. | 5689.337 | 3.092 | .12E-05 | 0.00 | .25E-06 | 73.701 | .20E-05 | 84.046 |
| 25. | 5694.337 | 2.663 | .13E-05 | 0.00 | .21E-06 | 73.423 | .20E-05 | 83.969 |
| 26. | 5698.555 | 2.190 | .13E-05 | 0.00 | .17E-06 | 73.194 | .20E-05 | 83.906 |
| 27. | 5701.920 | 1.678 | .13E-05 | 0.00 | .13E-06 | 73.014 | .20E-05 | 83.858 |
| 28. | 5704.369 | 1.136 | .13E-05 | 0.00 | .89E-07 | 72.885 | .20E-05 | 83.823 |
| 29. | 5705.857 | .573 | .13E-05 | 0.00 | .44E-07 | 72.807 | .20E-05 | 83.803 |
| 30. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 83.796 |
| 31. | 5705.857 | -.573 | .13E-05 | 0.00 | .44E-07 | -107.193 | .20E-05 | 83.803 |
| 32. | 5704.369 | -1.136 | .13E-05 | 0.00 | .89E-07 | -107.115 | .20E-05 | 83.823 |
| 33. | 5701.920 | -1.678 | .13E-05 | 0.00 | .13E-06 | -106.986 | .20E-05 | 83.858 |
| 34. | 5698.555 | -2.190 | .13E-05 | 0.00 | .17E-06 | -106.806 | .20E-05 | 83.906 |
| 35. | 5694.337 | -2.663 | .13E-05 | 0.00 | .21E-06 | -106.577 | .20E-05 | 83.969 |
| 36. | 5689.337 | -3.092 | .12E-05 | 0.00 | .25E-06 | -106.299 | .20E-05 | 84.046 |
| 37. | 5683.639 | -3.470 | .12E-05 | 0.00 | .29E-06 | -105.975 | .20E-05 | 84.137 |
| 38. | 5677.336 | -3.796 | .12E-05 | 0.00 | .33E-06 | -105.606 | .20E-05 | 84.244 |
| 39. | 5670.523 | -4.067 | .12E-05 | 0.00 | .36E-06 | -105.193 | .20E-05 | 84.366 |
| 40. | 5663.297 | -4.281 | .12E-05 | 0.00 | .39E-06 | -104.739 | .20E-05 | 84.504 |
| 41. | 5655.758 | -4.439 | .12E-05 | 0.00 | .42E-06 | -104.246 | .20E-05 | 84.657 |
| 42. | 5648.002 | -4.543 | .12E-05 | 0.00 | .45E-06 | -103.715 | .20E-05 | 84.825 |
| 43. | 5640.123 | -4.594 | .12E-05 | 0.00 | .47E-06 | -103.149 | .19E-05 | 85.009 |
| 44. | 5632.213 | -4.593 | .12E-05 | 0.00 | .49E-06 | -102.550 | .19E-05 | 85.208 |
| 45. | 5624.357 | -4.544 | .12E-05 | 0.00 | .51E-06 | -101.919 | .19E-05 | 85.422 |
| 46. | 5616.636 | -4.449 | .11E-05 | 0.00 | .53E-06 | -101.258 | .19E-05 | 85.652 |
| 47. | 5609.125 | -4.312 | .11E-05 | 0.00 | .55E-06 | -100.570 | .19E-05 | 85.895 |
| 48. | 5601.896 | -4.134 | .11E-05 | 0.00 | .57E-06 | -99.856 | .19E-05 | 86.152 |
| 49. | 5595.013 | -3.919 | .11E-05 | 0.00 | .58E-06 | -99.119 | .19E-05 | 86.423 |

Z-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5588.534 | -3.671 | .11E-05 | 0.00 | .59E-06 | -98.359 | .19E-05 | 86.705 |
| 51. | 5582.513 | -3.392 | .11E-05 | 0.00 | .60E-06 | -97.580 | .19E-05 | 87.000 |
| 52. | 5577.000 | -3.085 | .11E-05 | 0.00 | .61E-06 | -96.783 | .19E-05 | 87.305 |
| 53. | 5572.035 | -2.753 | .11E-05 | 0.00 | .62E-06 | -95.970 | .19E-05 | 87.620 |
| 54. | 5567.658 | -2.400 | .11E-05 | 0.00 | .63E-06 | -95.143 | .18E-05 | 87.943 |
| 55. | 5563.900 | -2.028 | .11E-05 | 0.00 | .63E-06 | -94.304 | .18E-05 | 88.274 |
| 56. | 5560.788 | -1.641 | .11E-05 | 0.00 | .64E-06 | -93.456 | .18E-05 | 88.612 |
| 57. | 5558.345 | -1.242 | .11E-05 | 0.00 | .64E-06 | -92.599 | .18E-05 | 88.954 |
| 58. | 5556.587 | -.833 | .11E-05 | 0.00 | .65E-06 | -91.736 | .18E-05 | 89.301 |
| 59. | 5555.528 | -.418 | .11E-05 | 0.00 | .65E-06 | -90.869 | .18E-05 | 89.650 |
| 60. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | -90.000 | .18E-05 | 90.000 |
| 61. | 5555.528 | .418 | .11E-05 | 0.00 | .65E-06 | -89.131 | .18E-05 | 90.350 |
| 62. | 5556.587 | .833 | .11E-05 | 0.00 | .65E-06 | -88.264 | .18E-05 | 90.699 |
| 63. | 5558.345 | 1.242 | .11E-05 | 0.00 | .64E-06 | -87.401 | .18E-05 | 91.046 |
| 64. | 5560.788 | 1.641 | .11E-05 | 0.00 | .64E-06 | -86.544 | .18E-05 | 91.388 |
| 65. | 5563.900 | 2.028 | .11E-05 | 0.00 | .63E-06 | -85.696 | .18E-05 | 91.726 |
| 66. | 5567.658 | 2.400 | .11E-05 | 0.00 | .63E-06 | -84.857 | .18E-05 | 92.057 |
| 67. | 5572.035 | 2.753 | .11E-05 | 0.00 | .62E-06 | -84.030 | .19E-05 | 92.380 |
| 68. | 5577.000 | 3.085 | .11E-05 | 0.00 | .61E-06 | -83.217 | .19E-05 | 92.695 |
| 69. | 5582.513 | 3.392 | .11E-05 | 0.00 | .60E-06 | -82.420 | .19E-05 | 93.000 |
| 70. | 5588.534 | 3.671 | .11E-05 | 0.00 | .59E-06 | -81.641 | .19E-05 | 93.295 |
| 71. | 5595.013 | 3.919 | .11E-05 | 0.00 | .58E-06 | -80.881 | .19E-05 | 93.577 |
| 72. | 5601.896 | 4.134 | .11E-05 | 0.00 | .57E-06 | -80.144 | .19E-05 | 93.848 |
| 73. | 5609.125 | 4.312 | .11E-05 | 0.00 | .55E-06 | -79.430 | .19E-05 | 94.105 |
| 74. | 5616.636 | 4.449 | .11E-05 | 0.00 | .53E-06 | -78.742 | .19E-05 | 94.348 |
| 75. | 5624.357 | 4.544 | .12E-05 | 0.00 | .51E-06 | -78.081 | .19E-05 | 94.578 |
| 76. | 5632.213 | 4.593 | .12E-05 | 0.00 | .49E-06 | -77.450 | .19E-05 | 94.792 |
| 77. | 5640.123 | 4.594 | .12E-05 | 0.00 | .47E-06 | -76.851 | .19E-05 | 94.991 |
| 78. | 5648.002 | 4.543 | .12E-05 | 0.00 | .45E-06 | -76.285 | .20E-05 | 95.175 |
| 79. | 5655.758 | 4.439 | .12E-05 | 0.00 | .42E-06 | -75.754 | .20E-05 | 95.343 |
| 80. | 5663.297 | 4.281 | .12E-05 | 0.00 | .39E-06 | -75.261 | .20E-05 | 95.496 |
| 81. | 5670.523 | 4.067 | .12E-05 | 0.00 | .36E-06 | -74.807 | .20E-05 | 95.634 |
| 82. | 5677.336 | 3.796 | .12E-05 | 0.00 | .33E-06 | -74.394 | .20E-05 | 95.756 |
| 83. | 5683.639 | 3.470 | .12E-05 | 0.00 | .29E-06 | -74.025 | .20E-05 | 95.863 |
| 84. | 5689.337 | 3.092 | .12E-05 | 0.00 | .25E-06 | -73.701 | .20E-05 | 95.954 |
| 85. | 5694.337 | 2.663 | .13E-05 | 0.00 | .21E-06 | -73.423 | .20E-05 | 96.031 |
| 86. | 5698.555 | 2.190 | .13E-05 | 0.00 | .17E-06 | -73.194 | .20E-05 | 96.094 |
| 87. | 5701.920 | 1.678 | .13E-05 | 0.00 | .13E-06 | -73.014 | .20E-05 | 96.142 |
| 88. | 5704.369 | 1.136 | .13E-05 | 0.00 | .89E-07 | -72.885 | .20E-05 | 96.177 |
| 89. | 5705.857 | .573 | .13E-05 | 0.00 | .44E-07 | -72.807 | .20E-05 | 96.197 |
| 90. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 96.204 |
| 91. | 5705.857 | -.573 | .13E-05 | 0.00 | .44E-07 | 107.193 | .20E-05 | 96.197 |
| 92. | 5704.369 | -1.136 | .13E-05 | 0.00 | .89E-07 | 107.115 | .20E-05 | 96.177 |
| 93. | 5701.920 | -1.678 | .13E-05 | 0.00 | .13E-06 | 106.986 | .20E-05 | 96.142 |
| 94. | 5698.555 | -2.190 | .13E-05 | 0.00 | .17E-06 | 106.806 | .20E-05 | 96.094 |
| 95. | 5694.337 | -2.663 | .13E-05 | 0.00 | .21E-06 | 106.577 | .20E-05 | 96.031 |
| 96. | 5689.337 | -3.092 | .12E-05 | 0.00 | .25E-06 | 106.299 | .20E-05 | 95.954 |
| 97. | 5683.639 | -3.470 | .12E-05 | 0.00 | .29E-06 | 105.975 | .20E-05 | 95.863 |
| 98. | 5677.336 | -3.796 | .12E-05 | 0.00 | .33E-06 | 105.606 | .20E-05 | 95.756 |
| 99. | 5670.523 | -4.067 | .12E-05 | 0.00 | .36E-06 | 105.193 | .20E-05 | 95.634 |

Z-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5663.297 | -4.281 | .12E-05 | 0.00 | .39E-06 | 104.739 | .20E-05 | 95.496 |
| 101. | 5655.758 | -4.439 | .12E-05 | 0.00 | .42E-06 | 104.246 | .20E-05 | 95.343 |
| 102. | 5648.002 | -4.543 | .12E-05 | 0.00 | .45E-06 | 103.715 | .20E-05 | 95.175 |
| 103. | 5640.123 | -4.594 | .12E-05 | 0.00 | .47E-06 | 103.149 | .19E-05 | 94.991 |
| 104. | 5632.213 | -4.593 | .12E-05 | 0.00 | .49E-06 | 102.550 | .19E-05 | 94.792 |
| 105. | 5624.357 | -4.544 | .12E-05 | 0.00 | .51E-06 | 101.919 | .19E-05 | 94.578 |
| 106. | 5616.636 | -4.449 | .11E-05 | 0.00 | .53E-06 | 101.258 | .19E-05 | 94.348 |
| 107. | 5609.125 | -4.312 | .11E-05 | 0.00 | .55E-06 | 100.570 | .19E-05 | 94.105 |
| 108. | 5601.896 | -4.134 | .11E-05 | 0.00 | .57E-06 | 99.856 | .19E-05 | 93.848 |
| 109. | 5595.013 | -3.919 | .11E-05 | 0.00 | .58E-06 | 99.119 | .19E-05 | 93.577 |
| 110. | 5588.534 | -3.671 | .11E-05 | 0.00 | .59E-06 | 98.359 | .19E-05 | 93.295 |
| 111. | 5582.513 | -3.392 | .11E-05 | 0.00 | .60E-06 | 97.580 | .19E-05 | 93.000 |
| 112. | 5577.000 | -3.085 | .11E-05 | 0.00 | .61E-06 | 96.783 | .19E-05 | 92.695 |
| 113. | 5572.035 | -2.753 | .11E-05 | 0.00 | .62E-06 | 95.970 | .19E-05 | 92.380 |
| 114. | 5567.658 | -2.400 | .11E-05 | 0.00 | .63E-06 | 95.143 | .18E-05 | 92.057 |
| 115. | 5563.900 | -2.028 | .11E-05 | 0.00 | .63E-06 | 94.304 | .18E-05 | 91.726 |
| 116. | 5560.788 | -1.641 | .11E-05 | 0.00 | .64E-06 | 93.456 | .18E-05 | 91.388 |
| 117. | 5558.345 | -1.242 | .11E-05 | 0.00 | .64E-06 | 92.599 | .18E-05 | 91.046 |
| 118. | 5556.587 | -.833 | .11E-05 | 0.00 | .65E-06 | 91.736 | .18E-05 | 90.699 |
| 119. | 5555.528 | -.418 | .11E-05 | 0.00 | .65E-06 | 90.869 | .18E-05 | 90.350 |
| 120. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | 90.000 | .18E-05 | 90.000 |
| 121. | 5555.528 | .418 | .11E-05 | 0.00 | .65E-06 | 89.131 | .18E-05 | 89.650 |
| 122. | 5556.587 | .833 | .11E-05 | 0.00 | .65E-06 | 88.264 | .18E-05 | 89.301 |
| 123. | 5558.345 | 1.242 | .11E-05 | 0.00 | .64E-06 | 87.401 | .18E-05 | 88.954 |
| 124. | 5560.788 | 1.641 | .11E-05 | 0.00 | .64E-06 | 86.544 | .18E-05 | 88.612 |
| 125. | 5563.900 | 2.028 | .11E-05 | 0.00 | .63E-06 | 85.696 | .18E-05 | 88.274 |
| 126. | 5567.658 | 2.400 | .11E-05 | 0.00 | .63E-06 | 84.857 | .18E-05 | 87.943 |
| 127. | 5572.035 | 2.753 | .11E-05 | 0.00 | .62E-06 | 84.030 | .19E-05 | 87.620 |
| 128. | 5577.000 | 3.085 | .11E-05 | 0.00 | .61E-06 | 83.217 | .19E-05 | 87.305 |
| 129. | 5582.513 | 3.392 | .11E-05 | 0.00 | .60E-06 | 82.420 | .19E-05 | 87.000 |
| 130. | 5588.534 | 3.671 | .11E-05 | 0.00 | .59E-06 | 81.641 | .19E-05 | 86.705 |
| 131. | 5595.013 | 3.919 | .11E-05 | 0.00 | .58E-06 | 80.881 | .19E-05 | 86.423 |
| 132. | 5601.896 | 4.134 | .11E-05 | 0.00 | .57E-06 | 80.144 | .19E-05 | 86.152 |
| 133. | 5609.125 | 4.312 | .11E-05 | 0.00 | .55E-06 | 79.430 | .19E-05 | 85.895 |
| 134. | 5616.636 | 4.449 | .11E-05 | 0.00 | .53E-06 | 78.742 | .19E-05 | 85.652 |
| 135. | 5624.357 | 4.544 | .12E-05 | 0.00 | .51E-06 | 78.081 | .19E-05 | 85.422 |
| 136. | 5632.213 | 4.593 | .12E-05 | 0.00 | .49E-06 | 77.450 | .19E-05 | 85.208 |
| 137. | 5640.123 | 4.594 | .12E-05 | 0.00 | .47E-06 | 76.851 | .19E-05 | 85.009 |
| 138. | 5648.002 | 4.543 | .12E-05 | 0.00 | .45E-06 | 76.285 | .20E-05 | 84.825 |
| 139. | 5655.758 | 4.439 | .12E-05 | 0.00 | .42E-06 | 75.754 | .20E-05 | 84.657 |
| 140. | 5663.297 | 4.281 | .12E-05 | 0.00 | .39E-06 | 75.261 | .20E-05 | 84.504 |
| 141. | 5670.523 | 4.067 | .12E-05 | 0.00 | .36E-06 | 74.807 | .20E-05 | 84.366 |
| 142. | 5677.336 | 3.796 | .12E-05 | 0.00 | .33E-06 | 74.394 | .20E-05 | 84.244 |
| 143. | 5683.639 | 3.470 | .12E-05 | 0.00 | .29E-06 | 74.025 | .20E-05 | 84.137 |
| 144. | 5689.337 | 3.092 | .12E-05 | 0.00 | .25E-06 | 73.701 | .20E-05 | 84.046 |
| 145. | 5694.337 | 2.663 | .13E-05 | 0.00 | .21E-06 | 73.423 | .20E-05 | 83.969 |
| 146. | 5698.555 | 2.190 | .13E-05 | 0.00 | .17E-06 | 73.194 | .20E-05 | 83.906 |
| 147. | 5701.920 | 1.678 | .13E-05 | 0.00 | .13E-06 | 73.014 | .20E-05 | 83.858 |
| 148. | 5704.369 | 1.136 | .13E-05 | 0.00 | .89E-07 | 72.885 | .20E-05 | 83.823 |
| 149. | 5705.857 | .573 | .13E-05 | 0.00 | .44E-07 | 72.807 | .20E-05 | 83.803 |

Z-CUT SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 83.796 |
| 151. | 5705.857 | -.573 | .13E-05 | 0.00 | .44E-07 | -107.193 | .20E-05 | 83.803 |
| 152. | 5704.369 | -1.136 | .13E-05 | 0.00 | .89E-07 | -107.115 | .20E-05 | 83.823 |
| 153. | 5701.920 | -1.678 | .13E-05 | 0.00 | .13E-06 | -106.986 | .20E-05 | 83.858 |
| 154. | 5698.555 | -2.190 | .13E-05 | 0.00 | .17E-06 | -106.806 | .20E-05 | 83.906 |
| 155. | 5694.337 | -2.663 | .13E-05 | 0.00 | .21E-06 | -106.577 | .20E-05 | 83.969 |
| 156. | 5689.337 | -3.092 | .12E-05 | 0.00 | .25E-06 | -106.299 | .20E-05 | 84.046 |
| 157. | 5683.639 | -3.470 | .12E-05 | 0.00 | .29E-06 | -105.975 | .20E-05 | 84.137 |
| 158. | 5677.336 | -3.796 | .12E-05 | 0.00 | .33E-06 | -105.606 | .20E-05 | 84.244 |
| 159. | 5670.523 | -4.067 | .12E-05 | 0.00 | .36E-06 | -105.193 | .20E-05 | 84.366 |
| 160. | 5663.297 | -4.281 | .12E-05 | 0.00 | .39E-06 | -104.739 | .20E-05 | 84.504 |
| 161. | 5655.758 | -4.439 | .12E-05 | 0.00 | .42E-06 | -104.246 | .20E-05 | 84.657 |
| 162. | 5648.002 | -4.543 | .12E-05 | 0.00 | .45E-06 | -103.715 | .20E-05 | 84.825 |
| 163. | 5640.123 | -4.594 | .12E-05 | 0.00 | .47E-06 | -103.149 | .19E-05 | 85.009 |
| 164. | 5632.213 | -4.593 | .12E-05 | 0.00 | .49E-06 | -102.550 | .19E-05 | 85.208 |
| 165. | 5624.357 | -4.544 | .12E-05 | 0.00 | .51E-06 | -101.919 | .19E-05 | 85.422 |
| 166. | 5616.636 | -4.449 | .11E-05 | 0.00 | .53E-06 | -101.258 | .19E-05 | 85.652 |
| 167. | 5609.125 | -4.312 | .11E-05 | 0.00 | .55E-06 | -100.570 | .19E-05 | 85.895 |
| 168. | 5601.896 | -4.134 | .11E-05 | 0.00 | .57E-06 | -99.856 | .19E-05 | 86.152 |
| 169. | 5595.013 | -3.919 | .11E-05 | 0.00 | .58E-06 | -99.119 | .19E-05 | 86.423 |
| 170. | 5588.534 | -3.671 | .11E-05 | 0.00 | .59E-06 | -98.359 | .19E-05 | 86.705 |
| 171. | 5582.513 | -3.392 | .11E-05 | 0.00 | .60E-06 | -97.580 | .19E-05 | 87.000 |
| 172. | 5577.000 | -3.085 | .11E-05 | 0.00 | .61E-06 | -96.783 | .19E-05 | 87.305 |
| 173. | 5572.035 | -2.753 | .11E-05 | 0.00 | .62E-06 | -95.970 | .19E-05 | 87.620 |
| 174. | 5567.658 | -2.400 | .11E-05 | 0.00 | .63E-06 | -95.143 | .18E-05 | 87.943 |
| 175. | 5563.900 | -2.028 | .11E-05 | 0.00 | .63E-06 | -94.304 | .18E-05 | 88.274 |
| 176. | 5560.788 | -1.641 | .11E-05 | 0.00 | .64E-06 | -93.456 | .18E-05 | 88.612 |
| 177. | 5558.345 | -1.242 | .11E-05 | 0.00 | .64E-06 | -92.599 | .18E-05 | 88.954 |
| 178. | 5556.587 | -.833 | .11E-05 | 0.00 | .65E-06 | -91.736 | .18E-05 | 89.301 |
| 179. | 5555.528 | -.418 | .11E-05 | 0.00 | .65E-06 | -90.869 | .18E-05 | 89.650 |
| 180. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | -90.000 | .18E-05 | 90.000 |

Y-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 96.204 |
| 1. | 5706.317 | .180 | .13E-05 | 0.00 | .11E-07 | 48.330 | .20E-05 | 96.206 |
| 2. | 5706.201 | .359 | .13E-05 | 0.00 | .23E-07 | 48.405 | .20E-05 | 96.211 |
| 3. | 5706.010 | .536 | .13E-05 | 0.00 | .34E-07 | 48.530 | .20E-05 | 96.219 |
| 4. | 5705.744 | .713 | .13E-05 | 0.00 | .45E-07 | 48.704 | .20E-05 | 96.230 |
| 5. | 5705.407 | .887 | .13E-05 | 0.00 | .56E-07 | 48.927 | .20E-05 | 96.245 |
| 6. | 5705.001 | 1.059 | .13E-05 | 0.00 | .68E-07 | 49.199 | .20E-05 | 96.262 |
| 7. | 5704.531 | 1.228 | .13E-05 | 0.00 | .78E-07 | 49.518 | .20E-05 | 96.282 |
| 8. | 5704.000 | 1.394 | .13E-05 | 0.00 | .89E-07 | 49.884 | .20E-05 | 96.304 |
| 9. | 5703.414 | 1.556 | .13E-05 | 0.00 | .10E-06 | 50.295 | .20E-05 | 96.329 |
| 10. | 5702.777 | 1.714 | .13E-05 | 0.00 | .11E-06 | 50.751 | .20E-05 | 96.356 |
| 11. | 5702.096 | 1.868 | .13E-05 | 0.00 | .12E-06 | 51.249 | .20E-05 | 96.384 |
| 12. | 5701.377 | 2.017 | .13E-05 | 0.00 | .13E-06 | 51.789 | .20E-05 | 96.415 |
| 13. | 5700.626 | 2.162 | .13E-05 | 0.00 | .14E-06 | 52.368 | .21E-05 | 96.446 |
| 14. | 5699.850 | 2.301 | .13E-05 | 0.00 | .15E-06 | 52.985 | .21E-05 | 96.478 |
| 15. | 5699.055 | 2.435 | .13E-05 | 0.00 | .16E-06 | 53.638 | .21E-05 | 96.511 |
| 16. | 5698.250 | 2.564 | .13E-05 | 0.00 | .17E-06 | 54.323 | .21E-05 | 96.545 |
| 17. | 5697.440 | 2.687 | .13E-05 | 0.00 | .18E-06 | 55.040 | .21E-05 | 96.579 |
| 18. | 5696.633 | 2.805 | .13E-05 | 0.00 | .19E-06 | 55.786 | .21E-05 | 96.613 |
| 19. | 5695.836 | 2.917 | .13E-05 | 0.00 | .20E-06 | 56.557 | .21E-05 | 96.647 |
| 20. | 5695.057 | 3.023 | .13E-05 | 0.00 | .21E-06 | 57.351 | .21E-05 | 96.681 |
| 21. | 5694.302 | 3.123 | .13E-05 | 0.00 | .22E-06 | 58.166 | .21E-05 | 96.715 |
| 22. | 5693.578 | 3.218 | .13E-05 | 0.00 | .23E-06 | 58.999 | .21E-05 | 96.747 |
| 23. | 5692.893 | 3.307 | .13E-05 | 0.00 | .24E-06 | 59.846 | .21E-05 | 96.780 |
| 24. | 5692.253 | 3.391 | .13E-05 | 0.00 | .25E-06 | 60.705 | .21E-05 | 96.811 |
| 25. | 5691.664 | 3.468 | .13E-05 | 0.00 | .26E-06 | 61.574 | .21E-05 | 96.842 |
| 26. | 5691.132 | 3.540 | .13E-05 | 0.00 | .27E-06 | 62.449 | .21E-05 | 96.872 |
| 27. | 5690.665 | 3.607 | .13E-05 | 0.00 | .27E-06 | 63.328 | .21E-05 | 96.901 |
| 28. | 5690.267 | 3.667 | .13E-05 | 0.00 | .28E-06 | 64.209 | .21E-05 | 96.930 |
| 29. | 5689.945 | 3.722 | .13E-05 | 0.00 | .29E-06 | 65.089 | .21E-05 | 96.957 |
| 30. | 5689.704 | 3.772 | .13E-05 | 0.00 | .30E-06 | 65.965 | .21E-05 | 96.984 |
| 31. | 5689.548 | 3.816 | .13E-05 | 0.00 | .31E-06 | 66.837 | .21E-05 | 97.009 |
| 32. | 5689.482 | 3.854 | .13E-05 | 0.00 | .32E-06 | 67.701 | .21E-05 | 97.034 |
| 33. | 5689.512 | 3.887 | .13E-05 | 0.00 | .33E-06 | 68.557 | .21E-05 | 97.058 |
| 34. | 5689.642 | 3.914 | .13E-05 | 0.00 | .34E-06 | 69.402 | .21E-05 | 97.082 |
| 35. | 5689.874 | 3.935 | .13E-05 | 0.00 | .35E-06 | 70.236 | .21E-05 | 97.104 |
| 36. | 5690.214 | 3.951 | .13E-05 | 0.00 | .36E-06 | 71.058 | .21E-05 | 97.126 |
| 37. | 5690.664 | 3.962 | .13E-05 | 0.00 | .37E-06 | 71.866 | .21E-05 | 97.147 |
| 38. | 5691.227 | 3.967 | .13E-05 | 0.00 | .38E-06 | 72.661 | .21E-05 | 97.168 |
| 39. | 5691.906 | 3.966 | .13E-05 | 0.00 | .39E-06 | 73.440 | .21E-05 | 97.188 |
| 40. | 5692.704 | 3.960 | .13E-05 | 0.00 | .40E-06 | 74.205 | .21E-05 | 97.207 |
| 41. | 5693.622 | 3.948 | .13E-05 | 0.00 | .41E-06 | 74.955 | .21E-05 | 97.226 |
| 42. | 5694.662 | 3.931 | .13E-05 | 0.00 | .42E-06 | 75.689 | .21E-05 | 97.244 |
| 43. | 5695.825 | 3.908 | .13E-05 | 0.00 | .43E-06 | 76.408 | .21E-05 | 97.262 |
| 44. | 5697.112 | 3.878 | .13E-05 | 0.00 | .44E-06 | 77.113 | .21E-05 | 97.278 |
| 45. | 5698.525 | 3.843 | .13E-05 | 0.00 | .44E-06 | 77.802 | .21E-05 | 97.294 |
| 46. | 5700.063 | 3.802 | .13E-05 | 0.00 | .45E-06 | 78.477 | .21E-05 | 97.309 |
| 47. | 5701.726 | 3.755 | .13E-05 | 0.00 | .46E-06 | 79.139 | .21E-05 | 97.323 |
| 48. | 5703.514 | 3.701 | .13E-05 | 0.00 | .47E-06 | 79.787 | .20E-05 | 97.336 |
| 49. | 5705.425 | 3.642 | .13E-05 | 0.00 | .48E-06 | 80.422 | .20E-05 | 97.347 |

Y-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5707.460 | 3.575 | .13E-05 | 0.00 | .49E-06 | 81.044 | .20E-05 | 97.357 |
| 51. | 5709.616 | 3.502 | .13E-05 | 0.00 | .50E-06 | 81.655 | .20E-05 | 97.365 |
| 52. | 5711.891 | 3.422 | .13E-05 | 0.00 | .51E-06 | 82.255 | .20E-05 | 97.371 |
| 53. | 5714.284 | 3.336 | .13E-05 | 0.00 | .51E-06 | 82.845 | .20E-05 | 97.374 |
| 54. | 5716.791 | 3.242 | .13E-05 | 0.00 | .52E-06 | 83.425 | .20E-05 | 97.375 |
| 55. | 5719.409 | 3.141 | .13E-05 | 0.00 | .53E-06 | 83.995 | .20E-05 | 97.373 |
| 56. | 5722.135 | 3.032 | .13E-05 | 0.00 | .54E-06 | 84.557 | .20E-05 | 97.367 |
| 57. | 5724.965 | 2.916 | .13E-05 | 0.00 | .54E-06 | 85.111 | .20E-05 | 97.357 |
| 58. | 5727.895 | 2.792 | .13E-05 | 0.00 | .55E-06 | 85.657 | .20E-05 | 97.342 |
| 59. | 5730.920 | 2.660 | .13E-05 | 0.00 | .55E-06 | 86.197 | .20E-05 | 97.323 |
| 60. | 5734.034 | 2.520 | .13E-05 | 0.00 | .56E-06 | 86.730 | .20E-05 | 97.298 |
| 61. | 5737.233 | 2.371 | .13E-05 | 0.00 | .56E-06 | 87.258 | .20E-05 | 97.266 |
| 62. | 5740.509 | 2.214 | .13E-05 | 0.00 | .56E-06 | 87.780 | .20E-05 | 97.226 |
| 63. | 5743.856 | 2.048 | .13E-05 | 0.00 | .56E-06 | 88.298 | .20E-05 | 97.181 |
| 64. | 5747.268 | 1.873 | .13E-05 | 0.00 | .56E-06 | 88.812 | .20E-05 | 97.127 |
| 65. | 5750.736 | 1.689 | .13E-05 | 0.00 | .56E-06 | 89.322 | .20E-05 | 97.062 |
| 66. | 5754.252 | 1.496 | .13E-05 | 0.00 | .56E-06 | 89.828 | .20E-05 | 96.986 |
| 67. | 5757.807 | 1.295 | .13E-05 | 0.00 | .56E-06 | 90.333 | .20E-05 | 96.902 |
| 68. | 5761.391 | 1.084 | .13E-05 | 0.00 | .56E-06 | 90.835 | .20E-05 | 96.803 |
| 69. | 5764.994 | .865 | .13E-05 | 0.00 | .55E-06 | 91.337 | .20E-05 | 96.692 |
| 70. | 5768.604 | .637 | .13E-05 | 0.00 | .54E-06 | 91.840 | .19E-05 | 96.566 |
| 71. | 5772.211 | .401 | .13E-05 | 0.00 | .54E-06 | 92.344 | .19E-05 | 96.424 |
| 72. | 5775.800 | .157 | .13E-05 | 0.00 | .53E-06 | 92.852 | .19E-05 | 96.266 |
| 73. | 5779.358 | -.093 | .13E-05 | 0.00 | .52E-06 | 93.367 | .19E-05 | 96.091 |
| 74. | 5782.870 | -.350 | .13E-05 | 0.00 | .50E-06 | 93.892 | .19E-05 | 95.896 |
| 75. | 5786.320 | -.611 | .13E-05 | 0.00 | .49E-06 | 94.432 | .19E-05 | 95.682 |
| 76. | 5789.691 | -.876 | .13E-05 | 0.00 | .47E-06 | 94.993 | .19E-05 | 95.447 |
| 77. | 5792.965 | -1.143 | .13E-05 | 0.00 | .45E-06 | 95.584 | .19E-05 | 95.191 |
| 78. | 5796.123 | -1.409 | .13E-05 | 0.00 | .43E-06 | 96.218 | .19E-05 | 94.913 |
| 79. | 5799.145 | -1.673 | .13E-05 | 0.00 | .41E-06 | 96.910 | .19E-05 | 94.612 |
| 80. | 5802.009 | -1.931 | .13E-05 | 0.00 | .38E-06 | 97.687 | .19E-05 | 94.286 |
| 81. | 5804.693 | -2.182 | .13E-05 | 0.00 | .35E-06 | 98.584 | .19E-05 | 93.941 |
| 82. | 5807.176 | -2.420 | .13E-05 | 0.00 | .32E-06 | 99.654 | .19E-05 | 93.572 |
| 83. | 5809.434 | -2.643 | .13E-05 | 0.00 | .29E-06 | 100.980 | .19E-05 | 93.181 |
| 84. | 5811.445 | -2.848 | .13E-05 | 0.00 | .25E-06 | 102.697 | .19E-05 | 92.770 |
| 85. | 5813.189 | -3.029 | .13E-05 | 0.00 | .22E-06 | 105.040 | .19E-05 | 92.340 |
| 86. | 5814.647 | -3.183 | .13E-05 | 0.00 | .18E-06 | 108.450 | .19E-05 | 91.893 |
| 87. | 5815.799 | -3.307 | .13E-05 | 0.00 | .14E-06 | 113.847 | .19E-05 | 91.433 |
| 88. | 5816.634 | -3.398 | .13E-05 | 0.00 | .10E-06 | 123.410 | .19E-05 | 90.961 |
| 89. | 5817.139 | -3.454 | .13E-05 | 0.00 | .72E-07 | 142.745 | .19E-05 | 90.483 |
| 90. | 5817.308 | -3.472 | .13E-05 | 0.00 | .57E-07 | 180.000 | .19E-05 | 90.000 |
| 91. | 5817.139 | -3.454 | .13E-05 | 0.00 | .72E-07 | -142.745 | .19E-05 | 89.517 |
| 92. | 5816.634 | -3.398 | .13E-05 | 0.00 | .10E-06 | -123.410 | .19E-05 | 89.039 |
| 93. | 5815.799 | -3.307 | .13E-05 | 0.00 | .14E-06 | -113.847 | .19E-05 | 88.567 |
| 94. | 5814.647 | -3.183 | .13E-05 | 0.00 | .18E-06 | -108.450 | .19E-05 | 88.107 |
| 95. | 5813.189 | -3.029 | .13E-05 | 0.00 | .22E-06 | -105.040 | .19E-05 | 87.660 |
| 96. | 5811.445 | -2.848 | .13E-05 | 0.00 | .25E-06 | -102.697 | .19E-05 | 87.230 |
| 97. | 5809.434 | -2.643 | .13E-05 | 0.00 | .29E-06 | -100.980 | .19E-05 | 86.819 |
| 98. | 5807.176 | -2.420 | .13E-05 | 0.00 | .32E-06 | -99.654 | .19E-05 | 86.428 |
| 99. | 5804.693 | -2.182 | .13E-05 | 0.00 | .35E-06 | -98.584 | .19E-05 | 86.059 |

Y-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5802.009 | -1.931 | .13E-05 | 0.00 | .38E-06 | -97.687 | .19E-05 | 85.712 |
| 101. | 5799.145 | -1.673 | .13E-05 | 0.00 | .41E-06 | -96.910 | .19E-05 | 85.388 |
| 102. | 5796.123 | -1.409 | .13E-05 | 0.00 | .43E-06 | -96.218 | .19E-05 | 85.087 |
| 103. | 5792.965 | -1.143 | .13E-05 | 0.00 | .45E-06 | -95.584 | .19E-05 | 84.809 |
| 104. | 5789.691 | -.876 | .13E-05 | 0.00 | .47E-06 | -94.993 | .19E-05 | 84.553 |
| 105. | 5786.320 | -.611 | .13E-05 | 0.00 | .49E-06 | -94.432 | .19E-05 | 84.318 |
| 106. | 5782.870 | -.350 | .13E-05 | 0.00 | .50E-06 | -93.892 | .19E-05 | 84.104 |
| 107. | 5779.358 | -.093 | .13E-05 | 0.00 | .52E-06 | -93.367 | .19E-05 | 83.909 |
| 108. | 5775.800 | .157 | .13E-05 | 0.00 | .53E-06 | -92.852 | .19E-05 | 83.734 |
| 109. | 5772.211 | .401 | .13E-05 | 0.00 | .54E-06 | -92.344 | .19E-05 | 83.576 |
| 110. | 5768.604 | .637 | .13E-05 | 0.00 | .54E-06 | -91.840 | .19E-05 | 83.434 |
| 111. | 5764.994 | .865 | .13E-05 | 0.00 | .55E-06 | -91.337 | .20E-05 | 83.308 |
| 112. | 5761.391 | 1.084 | .13E-05 | 0.00 | .56E-06 | -90.835 | .20E-05 | 83.197 |
| 113. | 5757.807 | 1.295 | .13E-05 | 0.00 | .56E-06 | -90.333 | .20E-05 | 83.098 |
| 114. | 5754.252 | 1.496 | .13E-05 | 0.00 | .56E-06 | -89.828 | .20E-05 | 83.012 |
| 115. | 5750.736 | 1.689 | .13E-05 | 0.00 | .56E-06 | -89.322 | .20E-05 | 82.938 |
| 116. | 5747.268 | 1.873 | .13E-05 | 0.00 | .56E-06 | -88.812 | .20E-05 | 82.873 |
| 117. | 5743.856 | 2.048 | .13E-05 | 0.00 | .56E-06 | -88.298 | .20E-05 | 82.819 |
| 118. | 5740.509 | 2.214 | .13E-05 | 0.00 | .56E-06 | -87.780 | .20E-05 | 82.772 |
| 119. | 5737.233 | 2.371 | .13E-05 | 0.00 | .56E-06 | -87.258 | .20E-05 | 82.734 |
| 120. | 5734.034 | 2.520 | .13E-05 | 0.00 | .56E-06 | -86.730 | .20E-05 | 82.702 |
| 121. | 5730.920 | 2.660 | .13E-05 | 0.00 | .55E-06 | -86.197 | .20E-05 | 82.677 |
| 122. | 5727.895 | 2.792 | .13E-05 | 0.00 | .55E-06 | -85.657 | .20E-05 | 82.658 |
| 123. | 5724.965 | 2.916 | .13E-05 | 0.00 | .54E-06 | -85.111 | .20E-05 | 82.643 |
| 124. | 5722.135 | 3.032 | .13E-05 | 0.00 | .54E-06 | -84.557 | .20E-05 | 82.633 |
| 125. | 5719.409 | 3.141 | .13E-05 | 0.00 | .53E-06 | -83.995 | .20E-05 | 82.627 |
| 126. | 5716.791 | 3.242 | .13E-05 | 0.00 | .52E-06 | -83.425 | .20E-05 | 82.625 |
| 127. | 5714.284 | 3.336 | .13E-05 | 0.00 | .51E-06 | -82.845 | .20E-05 | 82.626 |
| 128. | 5711.891 | 3.422 | .13E-05 | 0.00 | .51E-06 | -82.255 | .20E-05 | 82.629 |
| 129. | 5709.616 | 3.502 | .13E-05 | 0.00 | .50E-06 | -81.655 | .20E-05 | 82.635 |
| 130. | 5707.460 | 3.575 | .13E-05 | 0.00 | .49E-06 | -81.044 | .20E-05 | 82.643 |
| 131. | 5705.425 | 3.642 | .13E-05 | 0.00 | .48E-06 | -80.422 | .20E-05 | 82.653 |
| 132. | 5703.514 | 3.701 | .13E-05 | 0.00 | .47E-06 | -79.787 | .20E-05 | 82.664 |
| 133. | 5701.726 | 3.755 | .13E-05 | 0.00 | .46E-06 | -79.139 | .21E-05 | 82.677 |
| 134. | 5700.063 | 3.802 | .13E-05 | 0.00 | .45E-06 | -78.477 | .21E-05 | 82.691 |
| 135. | 5698.525 | 3.843 | .13E-05 | 0.00 | .44E-06 | -77.802 | .21E-05 | 82.706 |
| 136. | 5697.112 | 3.878 | .13E-05 | 0.00 | .44E-06 | -77.113 | .21E-05 | 82.722 |
| 137. | 5695.825 | 3.908 | .13E-05 | 0.00 | .43E-06 | -76.408 | .21E-05 | 82.738 |
| 138. | 5694.662 | 3.931 | .13E-05 | 0.00 | .42E-06 | -75.689 | .21E-05 | 82.756 |
| 139. | 5693.622 | 3.948 | .13E-05 | 0.00 | .41E-06 | -74.955 | .21E-05 | 82.774 |
| 140. | 5692.704 | 3.960 | .13E-05 | 0.00 | .40E-06 | -74.205 | .21E-05 | 82.793 |
| 141. | 5691.906 | 3.966 | .13E-05 | 0.00 | .39E-06 | -73.440 | .21E-05 | 82.812 |
| 142. | 5691.227 | 3.967 | .13E-05 | 0.00 | .38E-06 | -72.661 | .21E-05 | 82.832 |
| 143. | 5690.664 | 3.962 | .13E-05 | 0.00 | .37E-06 | -71.866 | .21E-05 | 82.853 |
| 144. | 5690.214 | 3.951 | .13E-05 | 0.00 | .36E-06 | -71.058 | .21E-05 | 82.874 |
| 145. | 5689.874 | 3.935 | .13E-05 | 0.00 | .35E-06 | -70.236 | .21E-05 | 82.896 |
| 146. | 5689.642 | 3.914 | .13E-05 | 0.00 | .34E-06 | -69.402 | .21E-05 | 82.918 |
| 147. | 5689.512 | 3.887 | .13E-05 | 0.00 | .33E-06 | -68.557 | .21E-05 | 82.942 |
| 148. | 5689.482 | 3.854 | .13E-05 | 0.00 | .32E-06 | -67.701 | .21E-05 | 82.966 |
| 149. | 5689.548 | 3.816 | .13E-05 | 0.00 | .31E-06 | -66.837 | .21E-05 | 82.991 |

Y-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5689.704 | 3.772 | .13E-05 | 0.00 | .30E-06 | -65.965 | .21E-05 | 83.016 |
| 151. | 5689.945 | 3.722 | .13E-05 | 0.00 | .29E-06 | -65.089 | .21E-05 | 83.043 |
| 152. | 5690.267 | 3.667 | .13E-05 | 0.00 | .28E-06 | -64.209 | .21E-05 | 83.070 |
| 153. | 5690.665 | 3.607 | .13E-05 | 0.00 | .27E-06 | -63.328 | .21E-05 | 83.099 |
| 154. | 5691.132 | 3.540 | .13E-05 | 0.00 | .27E-06 | -62.449 | .21E-05 | 83.128 |
| 155. | 5691.664 | 3.468 | .13E-05 | 0.00 | .26E-06 | -61.574 | .21E-05 | 83.156 |
| 156. | 5692.253 | 3.391 | .13E-05 | 0.00 | .25E-06 | -60.705 | .21E-05 | 83.189 |
| 157. | 5692.893 | 3.307 | .13E-05 | 0.00 | .24E-06 | -59.846 | .21E-05 | 83.220 |
| 158. | 5693.578 | 3.218 | .13E-05 | 0.00 | .23E-06 | -58.999 | .21E-05 | 83.253 |
| 159. | 5694.302 | 3.123 | .13E-05 | 0.00 | .22E-06 | -58.166 | .21E-05 | 83.285 |
| 160. | 5695.057 | 3.023 | .13E-05 | 0.00 | .21E-06 | -57.351 | .21E-05 | 83.319 |
| 161. | 5695.836 | 2.917 | .13E-05 | 0.00 | .20E-06 | -56.557 | .21E-05 | 83.353 |
| 162. | 5696.633 | 2.805 | .13E-05 | 0.00 | .19E-06 | -55.786 | .21E-05 | 83.387 |
| 163. | 5697.440 | 2.687 | .13E-05 | 0.00 | .18E-06 | -55.040 | .21E-05 | 83.421 |
| 164. | 5698.250 | 2.564 | .13E-05 | 0.00 | .17E-06 | -54.323 | .21E-05 | 83.455 |
| 165. | 5699.055 | 2.435 | .13E-05 | 0.00 | .16E-06 | -53.638 | .21E-05 | 83.489 |
| 166. | 5699.850 | 2.301 | .13E-05 | 0.00 | .15E-06 | -52.985 | .21E-05 | 83.522 |
| 167. | 5700.626 | 2.162 | .13E-05 | 0.00 | .14E-06 | -52.368 | .21E-05 | 83.554 |
| 168. | 5701.377 | 2.017 | .13E-05 | 0.00 | .13E-06 | -51.789 | .20E-05 | 83.585 |
| 169. | 5702.096 | 1.868 | .13E-05 | 0.00 | .12E-06 | -51.249 | .20E-05 | 83.616 |
| 170. | 5702.777 | 1.714 | .13E-05 | 0.00 | .11E-06 | -50.751 | .20E-05 | 83.644 |
| 171. | 5703.414 | 1.556 | .13E-05 | 0.00 | .10E-06 | -50.295 | .20E-05 | 83.671 |
| 172. | 5704.000 | 1.394 | .13E-05 | 0.00 | .89E-07 | -49.884 | .20E-05 | 83.696 |
| 173. | 5704.531 | 1.228 | .13E-05 | 0.00 | .78E-07 | -49.518 | .20E-05 | 83.718 |
| 174. | 5705.001 | 1.059 | .13E-05 | 0.00 | .68E-07 | -49.199 | .20E-05 | 83.738 |
| 175. | 5705.407 | .887 | .13E-05 | 0.00 | .56E-07 | -48.927 | .20E-05 | 83.755 |
| 176. | 5705.744 | .713 | .13E-05 | 0.00 | .45E-07 | -48.704 | .20E-05 | 83.770 |
| 177. | 5706.010 | .536 | .13E-05 | 0.00 | .34E-07 | -48.530 | .20E-05 | 83.781 |
| 178. | 5706.201 | .359 | .13E-05 | 0.00 | .23E-07 | -48.405 | .20E-05 | 83.789 |
| 179. | 5706.317 | .180 | .13E-05 | 0.00 | .11E-07 | -48.330 | .20E-05 | 83.794 |
| 180. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 83.796 |

Z-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5714.966 | 0.000 | .1 05 | 0.00 | 0. | 0.000 | .20E-05 | 91.387 |
| 1. | 5714.930 | -.240 | .13E-05 | 0.00 | .14E-07 | -167.744 | .20E-05 | 91.385 |
| 2. | 5714.823 | -.479 | .13E-05 | 0.00 | .27E-07 | -167.795 | .20E-05 | 91.378 |
| 3. | 5714.647 | -.715 | .13E-05 | 0.00 | .41E-07 | -167.880 | .20E-05 | 91.366 |
| 4. | 5714.403 | -.947 | .13E-05 | 0.00 | .54E-07 | -167.999 | .20E-05 | 91.349 |
| 5. | 5714.096 | -1.174 | .13E-05 | 0.00 | .67E-07 | -168.152 | .20E-05 | 91.328 |
| 6. | 5713.729 | -1.395 | .13E-05 | 0.00 | .80E-07 | -168.337 | .20E-05 | 91.302 |
| 7. | 5713.306 | -1.609 | .13E-05 | 0.00 | .92E-07 | -168.554 | .20E-05 | 91.273 |
| 8. | 5712.834 | -1.815 | .13E-05 | 0.00 | .10E-06 | -168.803 | .20E-05 | 91.239 |
| 9. | 5712.319 | -2.013 | .13E-05 | 0.00 | .12E-06 | -169.083 | .20E-05 | 91.202 |
| 10. | 5711.766 | -2.201 | .13E-05 | 0.00 | .13E-06 | -169.392 | .20E-05 | 91.161 |
| 11. | 5711.183 | -2.380 | .13E-05 | 0.00 | .14E-06 | -169.731 | .20E-05 | 91.117 |
| 12. | 5710.576 | -2.549 | .13E-05 | 0.00 | .15E-06 | -170.097 | .20E-05 | 91.071 |
| 13. | 5709.954 | -2.707 | .13E-05 | 0.00 | .16E-06 | -170.491 | .20E-05 | 91.022 |
| 14. | 5709.322 | -2.855 | .13E-05 | 0.00 | .17E-06 | -170.910 | .20E-05 | 90.970 |
| 15. | 5708.688 | -2.993 | .13E-05 | 0.00 | .17E-06 | -171.353 | .20E-05 | 90.917 |
| 16. | 5708.058 | -3.121 | .13E-05 | 0.00 | .18E-06 | -171.820 | .20E-05 | 90.861 |
| 17. | 5707.441 | -3.238 | .13E-05 | 0.00 | .19E-06 | -172.309 | .20E-05 | 90.805 |
| 18. | 5706.841 | -3.346 | .13E-05 | 0.00 | .19E-06 | -172.819 | .20E-05 | 90.746 |
| 19. | 5706.266 | -3.443 | .13E-05 | 0.00 | .20E-06 | -173.347 | .20E-05 | 90.687 |
| 20. | 5705.721 | -3.531 | .13E-05 | 0.00 | .21E-06 | -173.894 | .20E-05 | 90.627 |
| 21. | 5705.211 | -3.610 | .13E-05 | 0.00 | .21E-06 | -174.457 | .20E-05 | 90.566 |
| 22. | 5704.741 | -3.679 | .13E-05 | 0.00 | .22E-06 | -175.035 | .20E-05 | 90.504 |
| 23. | 5704.316 | -3.740 | .13E-05 | 0.00 | .22E-06 | -175.626 | .20E-05 | 90.442 |
| 24. | 5703.939 | -3.792 | .13E-05 | 0.00 | .22E-06 | -176.229 | .20E-05 | 90.380 |
| 25. | 5703.614 | -3.836 | .13E-05 | 0.00 | .23E-06 | -176.842 | .20E-05 | 90.317 |
| 26. | 5703.345 | -3.871 | .13E-05 | 0.00 | .23E-06 | -177.463 | .20E-05 | 90.254 |
| 27. | 5703.133 | -3.899 | .13E-05 | 0.00 | .23E-06 | -178.092 | .20E-05 | 90.190 |
| 28. | 5702.980 | -3.918 | .13E-05 | 0.00 | .23E-06 | -178.725 | .20E-05 | 90.127 |
| 29. | 5702.888 | -3.930 | .13E-05 | 0.00 | .23E-06 | -179.362 | .20E-05 | 90.064 |
| 30. | 5702.857 | -3.934 | .13E-05 | 0.00 | .23E-06 | -180.000 | .20E-05 | 90.000 |
| 31. | 5702.888 | -3.930 | .13E-05 | 0.00 | .23E-06 | 179.362 | .20E-05 | 89.936 |
| 32. | 5702.980 | -3.918 | .13E-05 | 0.00 | .23E-06 | 178.725 | .20E-05 | 89.873 |
| 33. | 5703.133 | -3.899 | .13E-05 | 0.00 | .23E-06 | 178.092 | .20E-05 | 89.810 |
| 34. | 5703.345 | -3.871 | .13E-05 | 0.00 | .23E-06 | 177.463 | .20E-05 | 89.746 |
| 35. | 5703.614 | -3.836 | .13E-05 | 0.00 | .23E-06 | 176.842 | .20E-05 | 89.683 |
| 36. | 5703.939 | -3.792 | .13E-05 | 0.00 | .22E-06 | 176.229 | .20E-05 | 89.620 |
| 37. | 5704.316 | -3.740 | .13E-05 | 0.00 | .22E-06 | 175.626 | .20E-05 | 89.558 |
| 38. | 5704.741 | -3.679 | .13E-05 | 0.00 | .22E-06 | 175.035 | .20E-05 | 89.496 |
| 39. | 5705.211 | -3.610 | .13E-05 | 0.00 | .21E-06 | 174.457 | .20E-05 | 89.434 |
| 40. | 5705.721 | -3.531 | .13E-05 | 0.00 | .21E-06 | 173.894 | .20E-05 | 89.373 |
| 41. | 5706.266 | -3.443 | .13E-05 | 0.00 | .20E-06 | 173.347 | .20E-05 | 89.313 |
| 42. | 5706.841 | -3.346 | .13E-05 | 0.00 | .19E-06 | 172.819 | .20E-05 | 89.254 |
| 43. | 5707.441 | -3.238 | .13E-05 | 0.00 | .19E-06 | 172.309 | .20E-05 | 89.195 |
| 44. | 5708.058 | -3.121 | .13E-05 | 0.00 | .18E-06 | 171.820 | .20E-05 | 89.139 |
| 45. | 5708.688 | -2.993 | .13E-05 | 0.00 | .17E-06 | 171.353 | .20E-05 | 89.083 |
| 46. | 5709.322 | -2.855 | .13E-05 | 0.00 | .17E-06 | 170.910 | .20E-05 | 89.030 |
| 47. | 5709.954 | -2.707 | .13E-05 | 0.00 | .16E-06 | 170.491 | .20E-05 | 88.978 |
| 48. | 5710.576 | -2.549 | .13E-05 | 0.00 | .15E-06 | 170.097 | .20E-05 | 88.929 |
| 49. | 5711.183 | -2.380 | .13E-05 | 0.00 | .14E-06 | 169.731 | .20E-05 | 88.883 |

Z-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5711.766 | -2.201 | .13E-05 | 0.00 | .13E-06 | 169.392 | .20E-05 | 88.839 |
| 51. | 5712.319 | -2.013 | .13E-05 | 0.00 | .12E-06 | 169.083 | .20E-05 | 88.798 |
| 52. | 5712.834 | -1.815 | .13E-05 | 0.00 | .10E-06 | 168.803 | .20E-05 | 88.761 |
| 53. | 5713.306 | -1.609 | .13E-05 | 0.00 | .92E-07 | 168.554 | .20E-05 | 88.727 |
| 54. | 5713.729 | -1.395 | .13E-05 | 0.00 | .80E-07 | 168.337 | .20E-05 | 88.698 |
| 55. | 5714.096 | -1.174 | .13E-05 | 0.00 | .67E-07 | 168.152 | .20E-05 | 88.672 |
| 56. | 5714.403 | -.947 | .13E-05 | 0.00 | .54E-07 | 167.999 | .20E-05 | 88.651 |
| 57. | 5714.647 | -.715 | .13E-05 | 0.00 | .41E-07 | 167.880 | .20E-05 | 88.634 |
| 58. | 5714.823 | -.479 | .13E-05 | 0.00 | .27E-07 | 167.795 | .20E-05 | 88.622 |
| 59. | 5714.930 | -.240 | .13E-05 | 0.00 | .14E-07 | 167.744 | .20E-05 | 88.615 |
| 60. | 5714.966 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 88.613 |
| 61. | 5714.930 | .240 | .13E-05 | 0.00 | .14E-07 | -12.256 | .20E-05 | 88.615 |
| 62. | 5714.823 | .479 | .13E-05 | 0.00 | .27E-07 | -12.205 | .20E-05 | 88.622 |
| 63. | 5714.647 | .715 | .13E-05 | 0.00 | .41E-07 | -12.120 | .20E-05 | 88.634 |
| 64. | 5714.403 | .947 | .13E-05 | 0.00 | .54E-07 | -12.001 | .20E-05 | 88.651 |
| 65. | 5714.096 | 1.174 | .13E-05 | 0.00 | .67E-07 | -11.848 | .20E-05 | 88.672 |
| 66. | 5713.729 | 1.395 | .13E-05 | 0.00 | .80E-07 | -11.663 | .20E-05 | 88.698 |
| 67. | 5713.306 | 1.609 | .13E-05 | 0.00 | .92E-07 | -11.446 | .20E-05 | 88.727 |
| 68. | 5712.834 | 1.815 | .13E-05 | 0.00 | .10E-06 | -11.197 | .20E-05 | 88.761 |
| 69. | 5712.319 | 2.013 | .13E-05 | 0.00 | .12E-06 | -10.917 | .20E-05 | 88.798 |
| 70. | 5711.766 | 2.201 | .13E-05 | 0.00 | .13E-06 | -10.608 | .20E-05 | 88.839 |
| 71. | 5711.183 | 2.380 | .13E-05 | 0.00 | .14E-06 | -10.269 | .20E-05 | 88.883 |
| 73. | 5709.954 | -2.707 | .13E-05 | 0.00 | .16E-06 | -9.509 | .20E-05 | 88.978 |
| 72. | 5710.576 | 2.549 | .13E-05 | 0.00 | .15E-06 | -9.903 | .20E-05 | 88.929 |
| 74. | 5709.322 | 2.855 | .13E-05 | 0.00 | .17E-06 | -9.090 | .20E-05 | 89.030 |
| 75. | 5708.688 | 2.993 | .13E-05 | 0.00 | .17E-06 | -8.647 | .20E-05 | 89.083 |
| 76. | 5708.058 | 3.121 | .13E-05 | 0.00 | .18E-06 | -8.180 | .20E-05 | 89.139 |
| 77. | 5707.441 | 3.238 | .13E-05 | 0.00 | .19E-06 | -7.691 | .20E-05 | 89.195 |
| 78. | 5706.841 | 3.346 | .13E-05 | 0.00 | .19E-06 | -7.181 | .20E-05 | 89.254 |
| 79. | 5706.266 | 3.443 | .13E-05 | 0.00 | .20E-06 | -6.653 | .20E-05 | 89.313 |
| 80. | 5705.721 | 3.531 | .13E-05 | 0.00 | .21E-06 | -6.106 | .20E-05 | 89.373 |
| 81. | 5705.211 | 3.610 | .13E-05 | 0.00 | .21E-06 | -5.543 | .20E-05 | 89.434 |
| 82. | 5704.741 | 3.679 | .13E-05 | 0.00 | .22E-06 | -4.965 | .20E-05 | 89.496 |
| 83. | 5704.316 | 3.740 | .13E-05 | 0.00 | .22E-06 | -4.374 | .20E-05 | 89.558 |
| 84. | 5703.939 | 3.792 | .13E-05 | 0.00 | .22E-06 | -3.771 | .20E-05 | 89.620 |
| 85. | 5703.614 | 3.836 | .13E-05 | 0.00 | .23E-06 | -3.158 | .20E-05 | 89.683 |
| 86. | 5703.345 | 3.871 | .13E-05 | 0.00 | .23E-06 | -2.537 | .20E-05 | 89.746 |
| 87. | 5703.133 | 3.899 | .13E-05 | 0.00 | .23E-06 | -1.908 | .20E-05 | 89.810 |
| 88. | 5702.980 | 3.918 | .13E-05 | 0.00 | .23E-06 | -1.275 | .20E-05 | 89.873 |
| 89. | 5702.888 | 3.930 | .13E-05 | 0.00 | .23E-06 | -.638 | .20E-05 | 89.936 |
| 90. | 5702.857 | 3.934 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 91. | 5702.888 | 3.930 | .13E-05 | 0.00 | .23E-06 | .638 | .20E-05 | 90.064 |
| 92. | 5702.980 | 3.918 | .13E-05 | 0.00 | .23E-06 | 1.275 | .20E-05 | 90.127 |
| 93. | 5703.133 | 3.899 | .13E-05 | 0.00 | .23E-06 | 1.908 | .20E-05 | 90.190 |
| 94. | 5703.345 | 3.871 | .13E-05 | 0.00 | .23E-06 | 2.537 | .20E-05 | 90.254 |
| 95. | 5703.614 | 3.836 | .13E-05 | 0.00 | .23E-06 | 3.158 | .20E-05 | 90.317 |
| 96. | 5703.939 | 3.792 | .13E-05 | 0.00 | .22E-06 | 3.771 | .20E-05 | 90.380 |
| 97. | 5704.316 | 3.740 | .13E-05 | 0.00 | .22E-06 | 4.374 | .20E-05 | 90.442 |
| 98. | 5704.741 | 3.679 | .13E-05 | 0.00 | .22E-06 | 4.965 | .20E-05 | 90.504 |
| 99. | 5705.211 | 3.610 | .13E-05 | 0.00 | .21E-06 | 5.543 | .20E-05 | 90.566 |

Z-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5705.721 | 3.531 | .13E-05 | 0.00 | .21E-06 | 6.106 | .20E-05 | 90.627 |
| 101. | 5706.266 | 3.443 | .13E-05 | 0.00 | .20E-06 | 6.653 | .20E-05 | 90.687 |
| 102. | 5706.841 | 3.346 | .13E-05 | 0.00 | .19E-06 | 7.181 | .20E-05 | 90.746 |
| 103. | 5707.441 | 3.238 | .13E-05 | 0.00 | .19E-06 | 7.691 | .20E-05 | 90.805 |
| 104. | 5708.058 | 3.121 | .13E-05 | 0.00 | .18E-06 | 8.180 | .20E-05 | 90.861 |
| 105. | 5708.688 | 2.993 | .13E-05 | 0.00 | .17E-06 | 8.647 | .20E-05 | 90.917 |
| 106. | 5709.322 | 2.855 | .13E-05 | 0.00 | .17E-06 | 9.090 | .20E-05 | 90.970 |
| 107. | 5709.954 | 2.707 | .13E-05 | 0.00 | .16E-06 | 9.509 | .20E-05 | 91.022 |
| 108. | 5710.576 | 2.549 | .13E-05 | 0.00 | .15E-06 | 9.903 | .20E-05 | 91.071 |
| 109. | 5711.183 | 2.380 | .13E-05 | 0.00 | .14E-06 | 10.269 | .20E-05 | 91.117 |
| 110. | 5711.766 | 2.201 | .13E-05 | 0.00 | .13E-06 | 10.608 | .20E-05 | 91.161 |
| 111. | 5712.319 | 2.013 | .13E-05 | 0.00 | .12E-06 | 10.917 | .20E-05 | 91.202 |
| 112. | 5712.834 | 1.815 | .13E-05 | 0.00 | .10E-06 | 11.197 | .20E-05 | 91.239 |
| 113. | 5713.306 | 1.609 | .13E-05 | 0.00 | .92E-07 | 11.446 | .20E-05 | 91.273 |
| 114. | 5713.729 | 1.395 | .13E-05 | 0.00 | .80E-07 | 11.663 | .20E-05 | 91.302 |
| 115. | 5714.096 | 1.174 | .13E-05 | 0.00 | .67E-07 | 11.848 | .20E-05 | 91.328 |
| 116. | 5714.403 | .947 | .13E-05 | 0.00 | .54E-07 | 12.001 | .20E-05 | 91.349 |
| 117. | 5714.647 | .715 | .13E-05 | 0.00 | .41E-07 | 12.120 | .20E-05 | 91.366 |
| 118. | 5714.823 | .479 | .13E-05 | 0.00 | .27E-07 | 12.205 | .20E-05 | 91.378 |
| 119. | 5714.930 | .240 | .13E-05 | 0.00 | .14E-07 | 12.256 | .20E-05 | 91.385 |
| 120. | 5714.966 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 91.387 |
| 121. | 5714.930 | -.240 | .13E-05 | 0.00 | .14E-07 | -167.744 | .20E-05 | 91.385 |
| 122. | 5714.823 | -.479 | .13E-05 | 0.00 | .27E-07 | -167.795 | .20E-05 | 91.378 |
| 123. | 5714.647 | -.715 | .13E-05 | 0.00 | .41E-07 | -167.880 | .20E-05 | 91.366 |
| 124. | 5714.403 | -.947 | .13E-05 | 0.00 | .54E-07 | -167.999 | .20E-05 | 91.349 |
| 125. | 5714.096 | -1.174 | .13E-05 | 0.00 | .67E-07 | -168.152 | .20E-05 | 91.328 |
| 126. | 5713.729 | -1.395 | .13E-05 | 0.00 | .80E-07 | -168.337 | .20E-05 | 91.302 |
| 127. | 5713.306 | -1.609 | .13E-05 | 0.00 | .92E-07 | -168.554 | .20E-05 | 91.273 |
| 128. | 5712.834 | -1.815 | .13E-05 | 0.00 | .10E-06 | -168.803 | .20E-05 | 91.239 |
| 129. | 5712.319 | -2.013 | .13E-05 | 0.00 | .12E-06 | -169.083 | .20E-05 | 91.202 |
| 130. | 5711.766 | -2.201 | .13E-05 | 0.00 | .13E-06 | -169.392 | .20E-05 | 91.161 |
| 131. | 5711.183 | -2.380 | .13E-05 | 0.00 | .14E-06 | -169.731 | .20E-05 | 91.117 |
| 132. | 5710.576 | -2.549 | .13E-05 | 0.00 | .15E-06 | -170.097 | .20E-05 | 91.071 |
| 133. | 5709.954 | -2.707 | .13E-05 | 0.00 | .16E-06 | -170.491 | .20E-05 | 91.022 |
| 134. | 5709.322 | -2.855 | .13E-05 | 0.00 | .17E-06 | -170.910 | .20E-05 | 90.970 |
| 135. | 5708.688 | -2.993 | .13E-05 | 0.00 | .17E-06 | -171.353 | .20E-05 | 90.917 |
| 136. | 5708.058 | -3.121 | .13E-05 | 0.00 | .18E-06 | -171.820 | .20E-05 | 90.861 |
| 137. | 5707.441 | -3.238 | .13E-05 | 0.00 | .19E-06 | -172.309 | .20E-05 | 90.805 |
| 138. | 5706.841 | -3.346 | .13E-05 | 0.00 | .19E-06 | -172.819 | .20E-05 | 90.746 |
| 139. | 5706.266 | -3.443 | .13E-05 | 0.00 | .20E-06 | -173.347 | .20E-05 | 90.687 |
| 140. | 5705.721 | -3.531 | .13E-05 | 0.00 | .21E-06 | -173.894 | .20E-05 | 90.627 |
| 141. | 5705.211 | -3.610 | .13E-05 | 0.00 | .21E-06 | -174.457 | .20E-05 | 90.566 |
| 142. | 5704.741 | -3.679 | .13E-05 | 0.00 | .22E-06 | -175.035 | .20E-05 | 90.504 |
| 143. | 5704.316 | -3.740 | .13E-05 | 0.00 | .22E-06 | -175.626 | .20E-05 | 90.442 |
| 144. | 5703.939 | -3.792 | .13E-05 | 0.00 | .22E-06 | -176.229 | .20E-05 | 90.380 |
| 145. | 5703.614 | -3.836 | .13E-05 | 0.00 | .23E-06 | -176.842 | .20E-05 | 90.317 |
| 146. | 5703.345 | -3.871 | .13E-05 | 0.00 | .23E-06 | -177.463 | .20E-05 | 90.254 |
| 147. | 5703.133 | -3.899 | .13E-05 | 0.00 | .23E-06 | -178.092 | .20E-05 | 90.190 |
| 148. | 5702.980 | -3.918 | .13E-05 | 0.00 | .23E-06 | -178.725 | .20E-05 | 90.127 |
| 149. | 5702.888 | -3.930 | .13E-05 | 0.00 | .23E-06 | -179.362 | .20E-05 | 90.064 |

Z-AXIS BOULE SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5702.857 | -3.934 | .13E-05 | 0.00 | .23E-06 | -180.000 | .20E-05 | 90.000 |
| 151. | 5702.888 | -3.930 | .13E-05 | 0.00 | .23E-06 | 179.362 | .20E-05 | 89.936 |
| 152. | 5702.980 | -3.918 | .13E-05 | 0.00 | .23E-06 | 178.725 | .20E-05 | 89.873 |
| 153. | 5703.133 | -3.899 | .13E-05 | 0.00 | .23E-06 | 178.092 | .20E-05 | 89.810 |
| 154. | 5703.345 | -3.871 | .13E-05 | 0.00 | .23E-06 | 177.463 | .20E-05 | 89.746 |
| 155. | 5703.614 | -3.836 | .13E-05 | 0.00 | .23E-06 | 176.842 | .20E-05 | 89.683 |
| 156. | 5703.939 | -3.792 | .13E-05 | 0.00 | .22E-06 | 176.229 | .20E-05 | 89.620 |
| 157. | 5704.316 | -3.740 | .13E-05 | 0.00 | .22E-06 | 175.626 | .20E-05 | 89.558 |
| 158. | 5704.741 | -3.679 | .13E-05 | 0.00 | .22E-06 | 175.035 | .20E-05 | 89.496 |
| 159. | 5705.211 | -3.610 | .13E-05 | 0.00 | .21E-06 | 174.457 | .20E-05 | 89.434 |
| 160. | 5705.721 | -3.531 | .13E-05 | 0.00 | .21E-06 | 173.894 | .20E-05 | 89.373 |
| 161. | 5706.266 | -3.443 | .13E-05 | 0.00 | .20E-06 | 173.347 | .20E-05 | 89.313 |
| 162. | 5706.841 | -3.346 | .13E-05 | 0.00 | .19E-06 | 172.819 | .20E-05 | 89.254 |
| 163. | 5707.441 | -3.238 | .13E-05 | 0.00 | .19E-06 | 172.309 | .20E-05 | 89.195 |
| 164. | 5708.058 | -3.121 | .13E-05 | 0.00 | .18E-06 | 171.820 | .20E-05 | 89.139 |
| 165. | 5708.688 | -2.993 | .13E-05 | 0.00 | .17E-06 | 171.353 | .20E-05 | 89.083 |
| 166. | 5709.322 | -2.855 | .13E-05 | 0.00 | .17E-06 | 170.910 | .20E-05 | 89.030 |
| 167. | 5709.954 | -2.707 | .13E-05 | 0.00 | .16E-06 | 170.491 | .20E-05 | 88.978 |
| 168. | 5710.576 | -2.549 | .13E-05 | 0.00 | .15E-06 | 170.097 | .20E-05 | 88.929 |
| 169. | 5711.183 | -2.380 | .13E-05 | 0.00 | .14E-06 | 169.731 | .20E-05 | 88.883 |
| 170. | 5711.766 | -2.201 | .13E-05 | 0.00 | .13E-06 | 169.392 | .20E-05 | 88.839 |
| 171. | 5712.319 | -2.013 | .13E-05 | 0.00 | .12E-06 | 169.083 | .20E-05 | 88.798 |
| 172. | 5712.834 | -1.815 | .13E-05 | 0.00 | .10E-06 | 168.803 | .20E-05 | 88.761 |
| 173. | 5713.306 | -1.609 | .13E-05 | 0.00 | .92E-07 | 168.554 | .20E-05 | 88.727 |
| 174. | 5713.729 | -1.395 | .13E-05 | 0.00 | .80E-07 | 168.337 | .20E-05 | 88.698 |
| 175. | 5714.096 | -1.174 | .13E-05 | 0.00 | .67E-07 | 168.152 | .20E-05 | 88.672 |
| 176. | 5714.403 | -.947 | .13E-05 | 0.00 | .54E-07 | 167.999 | .20E-05 | 88.651 |
| 177. | 5714.647 | -.715 | .13E-05 | 0.00 | .41E-07 | 167.880 | .20E-05 | 88.634 |
| 178. | 5714.823 | -.479 | .13E-05 | 0.00 | .27E-07 | 167.795 | .20E-05 | 88.622 |
| 179. | 5714.930 | -.240 | .13E-05 | 0.00 | .14E-07 | 167.744 | .20E-05 | 88.615 |
| 180. | 5714.966 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 88.613 |

X-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 96.204 |
| 1. | 5702.810 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 95.668 |
| 2. | 5699.955 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 95.115 |
| 3. | 5697.798 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 94.549 |
| 4. | 5696.342 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 93.972 |
| 5. | 5695.589 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 93.385 |
| 6. | 5695.541 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 92.791 |
| 7. | 5696.198 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 92.193 |
| 8. | 5697.560 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 91.592 |
| 9. | 5699.624 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 90.992 |
| 10. | 5702.388 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .20E-05 | 90.393 |
| 11. | 5705.847 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .21E-05 | 89.800 |
| 12. | 5709.997 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 89.213 |
| 13. | 5714.831 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 88.636 |
| 14. | 5720.340 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 88.071 |
| 15. | 5726.517 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 87.519 |
| 16. | 5733.349 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 86.984 |
| 17. | 5740.825 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 86.467 |
| 18. | 5748.931 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 85.970 |
| 19. | 5757.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 85.495 |
| 20. | 5766.968 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 85.045 |
| 21. | 5776.862 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 84.621 |
| 22. | 5787.310 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 84.225 |
| 23. | 5798.287 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 83.860 |
| 24. | 5809.767 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 83.525 |
| 25. | 5821.720 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 83.224 |
| 26. | 5834.111 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.957 |
| 27. | 5846.904 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.727 |
| 28. | 5860.058 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.534 |
| 29. | 5873.529 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.380 |
| 30. | 5887.269 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.265 |
| 31. | 5901.225 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.192 |
| 32. | 5915.338 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.160 |
| 33. | 5929.548 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.170 |
| 34. | 5943.787 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.224 |
| 35. | 5957.983 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.321 |
| 36. | 5972.059 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.462 |
| 37. | 5985.933 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.647 |
| 38. | 5999.520 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 82.875 |
| 39. | 6012.730 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 83.146 |
| 40. | 6025.468 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 83.460 |
| 41. | 6037.639 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 83.815 |
| 42. | 6049.146 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 84.209 |
| 43. | 6059.889 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 84.642 |
| 44. | 6069.774 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 85.110 |
| 45. | 6078.706 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 85.610 |
| 46. | 6086.596 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 86.141 |
| 47. | 6093.364 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 86.698 |
| 48. | 6098.935 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 87.277 |
| 49. | 6103.248 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 87.875 |

X-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 6106.254 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .22E-05 | 88.487 |
| 51. | 6107.916 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .22E-05 | 89.107 |
| 52. | 6108.216 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .22E-05 | 89.732 |
| 53. | 6107.147 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .22E-05 | 90.357 |
| 54. | 6104.723 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .22E-05 | 90.975 |
| 55. | 6100.970 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 91.584 |
| 56. | 6095.931 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 92.177 |
| 57. | 6089.660 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 92.751 |
| 58. | 6082.225 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 93.302 |
| 59. | 6073.705 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 93.825 |
| 60. | 6064.184 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 94.318 |
| 61. | 6053.753 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 94.777 |
| 62. | 6042.509 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 95.200 |
| 63. | 6030.550 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 95.586 |
| 64. | 6017.974 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 95.931 |
| 65. | 6004.878 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.236 |
| 66. | 5991.359 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.498 |
| 67. | 5977.509 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.718 |
| 68. | 5963.417 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.895 |
| 69. | 5949.167 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.028 |
| 70. | 5934.839 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.118 |
| 71. | 5920.509 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.166 |
| 72. | 5906.246 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.171 |
| 73. | 5892.117 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.135 |
| 74. | 5878.180 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.058 |
| 75. | 5864.492 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.942 |
| 76. | 5851.103 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.786 |
| 77. | 5838.061 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.594 |
| 78. | 5825.408 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.365 |
| 79. | 5813.183 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.101 |
| 80. | 5801.421 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 95.804 |
| 81. | 5790.154 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 95.476 |
| 82. | 5779.411 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 95.117 |
| 83. | 5769.219 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 94.730 |
| 84. | 5759.600 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 94.317 |
| 85. | 5750.577 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 93.878 |
| 86. | 5742.166 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 93.418 |
| 87. | 5734.386 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 92.936 |
| 88. | 5727.251 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .21E-05 | 92.436 |
| 89. | 5720.773 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 91.919 |
| 90. | 5714.966 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 91.387 |
| 91. | 5709.837 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 90.844 |
| 92. | 5705.397 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 90.290 |
| 93. | 5701.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 89.729 |
| 94. | 5698.605 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 89.162 |
| 95. | 5696.265 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 88.591 |
| 96. | 5694.634 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 88.020 |
| 97. | 5693.714 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 87.451 |
| 98. | 5693.505 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 86.885 |
| 99. | 5694.009 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 86.324 |

X-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5695.224 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 85.772 |
| 101. | 5697.147 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 85.231 |
| 102. | 5699.776 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 84.702 |
| 103. | 5703.106 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 84.188 |
| 104. | 5707.131 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 83.691 |
| 105. | 5711.844 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 83.212 |
| 106. | 5717.236 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 82.755 |
| 107. | 5723.298 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 82.321 |
| 108. | 5730.016 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 81.911 |
| 109. | 5737.379 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 81.528 |
| 110. | 5745.371 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 81.173 |
| 111. | 5753.974 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 80.849 |
| 112. | 5763.168 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 80.556 |
| 113. | 5772.932 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 80.297 |
| 114. | 5783.240 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 80.073 |
| 115. | 5794.065 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 79.885 |
| 116. | 5805.376 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 79.736 |
| 117. | 5817.138 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 79.625 |
| 118. | 5829.315 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 79.555 |
| 119. | 5841.862 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 79.527 |
| 120. | 5854.735 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 79.542 |
| 121. | 5867.883 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 79.601 |
| 122. | 5881.249 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 79.705 |
| 123. | 5894.772 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 79.855 |
| 124. | 5908.387 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 80.052 |
| 125. | 5922.021 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 80.295 |
| 126. | 5935.597 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 80.586 |
| 127. | 5949.033 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 80.924 |
| 128. | 5962.241 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 81.310 |
| 129. | 5975.126 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 81.743 |
| 130. | 5987.593 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.223 |
| 131. | 5999.539 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 82.747 |
| 132. | 6010.863 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 83.315 |
| 133. | 6021.460 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 83.925 |
| 134. | 6031.226 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 84.573 |
| 135. | 6040.061 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 85.258 |
| 136. | 6047.870 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 85.976 |
| 137. | 6054.563 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 86.723 |
| 138. | 6060.062 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 87.493 |
| 139. | 6064.300 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 88.283 |
| 140. | 6067.224 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 89.088 |
| 141. | 6068.798 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 89.901 |
| 142. | 6069.003 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 90.717 |
| 143. | 6067.836 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 91.530 |
| 144. | 6065.313 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 92.335 |
| 145. | 6061.468 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 93.126 |
| 146. | 6056.352 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 93.897 |
| 147. | 6050.026 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 94.645 |
| 148. | 6042.569 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 95.363 |
| 149. | 6034.066 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.049 |

X-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 6024.612 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .21E-05 | 96.699 |
| 151. | 6014.306 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.310 |
| 152. | 6003.249 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 97.878 |
| 153. | 5991.547 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 98.403 |
| 154. | 5979.302 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 98.883 |
| 155. | 5966.614 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 99.315 |
| 156. | 5953.580 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 99.701 |
| 157. | 5940.295 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.038 |
| 158. | 5926.847 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.328 |
| 159. | 5913.319 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.570 |
| 160. | 5899.789 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.764 |
| 161. | 5886.329 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.910 |
| 162. | 5873.007 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 101.011 |
| 163. | 5859.884 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .21E-05 | 101.065 |
| 164. | 5847.017 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 101.075 |
| 165. | 5834.457 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 101.041 |
| 166. | 5822.251 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .21E-05 | 100.965 |
| 167. | 5810.443 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 100.847 |
| 168. | 5799.071 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 100.688 |
| 169. | 5788.169 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 100.491 |
| 170. | 5777.770 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .20E-05 | 100.257 |
| 171. | 5767.901 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 99.986 |
| 172. | 5758.588 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 99.681 |
| 173. | 5749.855 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 99.344 |
| 174. | 5741.720 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 98.974 |
| 175. | 5734.202 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 98.576 |
| 176. | 5727.317 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 98.150 |
| 177. | 5721.078 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 97.697 |
| 178. | 5715.498 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 97.221 |
| 179. | 5710.588 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 96.723 |
| 180. | 5706.356 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .20E-05 | 96.204 |

Y-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | -90.000 | .18E-05 | 90.000 |
| 1. | 5555.570 | -.100 | .11E-05 | 0.00 | .65E-06 | -90.877 | .18E-05 | 89.305 |
| 2. | 5556.756 | -.199 | .11E-05 | 0.00 | .65E-06 | -91.752 | .18E-05 | 88.613 |
| 3. | 5558.732 | -.298 | .11E-05 | 0.00 | .65E-06 | -92.623 | .18E-05 | 87.926 |
| 4. | 5561.496 | -.396 | .11E-05 | 0.00 | .65E-06 | -93.486 | .18E-05 | 87.247 |
| 5. | 5565.045 | -.494 | .11E-05 | 0.00 | .65E-06 | -94.341 | .18E-05 | 86.578 |
| 6. | 5569.376 | -.590 | .11E-05 | 0.00 | .65E-06 | -95.184 | .18E-05 | 85.922 |
| 7. | 5574.485 | -.684 | .11E-05 | 0.00 | .64E-06 | -96.014 | .18E-05 | 85.281 |
| 8. | 5580.366 | -.777 | .11E-05 | 0.00 | .64E-06 | -96.829 | .18E-05 | 84.658 |
| 9. | 5587.014 | -.867 | .11E-05 | 0.00 | .64E-06 | -97.626 | .18E-05 | 84.055 |
| 10. | 5594.422 | -.956 | .11E-05 | 0.00 | .64E-06 | -98.404 | .18E-05 | 83.474 |
| 11. | 5602.580 | -1.041 | .11E-05 | 0.00 | .64E-06 | -99.162 | .18E-05 | 82.919 |
| 12. | 5611.479 | -1.124 | .11E-05 | 0.00 | .64E-06 | -99.896 | .19E-05 | 82.390 |
| 13. | 5621.108 | -1.203 | .11E-05 | 0.00 | .63E-06 | -100.605 | .19E-05 | 81.890 |
| 14. | 5631.454 | -1.278 | .12E-05 | 0.00 | .63E-06 | -101.289 | .19E-05 | 81.422 |
| 15. | 5642.501 | -1.350 | .12E-05 | 0.00 | .63E-06 | -101.946 | .19E-05 | 80.987 |
| 16. | 5654.233 | -1.417 | .12E-05 | 0.00 | .62E-06 | -102.573 | .19E-05 | 80.588 |
| 17. | 5666.629 | -1.479 | .12E-05 | 0.00 | .62E-06 | -103.171 | .19E-05 | 80.226 |
| 18. | 5679.667 | -1.536 | .12E-05 | 0.00 | .62E-06 | -103.738 | .19E-05 | 79.904 |
| 19. | 5693.323 | -1.588 | .12E-05 | 0.00 | .61E-06 | -104.273 | .19E-05 | 79.624 |
| 20. | 5707.565 | -1.633 | .12E-05 | 0.00 | .60E-06 | -104.775 | .19E-05 | 79.387 |
| 21. | 5722.360 | -1.672 | .12E-05 | 0.00 | .60E-06 | -105.245 | .19E-05 | 79.197 |
| 22. | 5737.671 | -1.704 | .13E-05 | 0.00 | .59E-06 | -105.683 | .19E-05 | 79.054 |
| 23. | 5753.452 | -1.729 | .13E-05 | 0.00 | .58E-06 | -106.088 | .19E-05 | 78.961 |
| 24. | 5769.654 | -1.746 | .13E-05 | 0.00 | .57E-06 | -106.462 | .19E-05 | 78.921 |
| 25. | 5786.218 | -1.755 | .13E-05 | 0.00 | .56E-06 | -106.807 | .19E-05 | 78.935 |
| 26. | 5803.078 | -1.757 | .13E-05 | 0.00 | .54E-06 | -107.126 | .19E-05 | 79.006 |
| 27. | 5820.157 | -1.752 | .13E-05 | 0.00 | .52E-06 | -107.423 | .19E-05 | 79.136 |
| 28. | 5837.367 | -1.740 | .14E-05 | 0.00 | .50E-06 | -107.708 | .20E-05 | 79.329 |
| 29. | 5854.606 | -1.723 | .14E-05 | 0.00 | .48E-06 | -107.992 | .20E-05 | 79.586 |
| 30. | 5871.756 | -1.703 | .14E-05 | 0.00 | .46E-06 | -108.294 | .20E-05 | 79.911 |
| 31. | 5888.680 | -1.683 | .14E-05 | 0.00 | .43E-06 | -108.647 | .20E-05 | 80.306 |
| 32. | 5905.221 | -1.669 | .15E-05 | 0.00 | .39E-06 | -109.102 | .20E-05 | 80.774 |
| 33. | 5921.198 | -1.667 | .15E-05 | 0.00 | .35E-06 | -109.755 | .20E-05 | 81.317 |
| 34. | 5936.406 | -1.688 | .15E-05 | 0.00 | .30E-06 | -110.767 | .20E-05 | 81.938 |
| 35. | 5950.614 | -1.744 | .15E-05 | 0.00 | .25E-06 | -112.592 | .20E-05 | 82.636 |
| 36. | 5963.569 | -1.852 | .15E-05 | 0.00 | .19E-06 | -116.169 | .20E-05 | 83.412 |
| 37. | 5975.006 | -2.027 | .15E-05 | 0.00 | .12E-06 | -124.913 | .21E-05 | 84.262 |
| 38. | 5984.662 | -2.287 | .15E-05 | 0.00 | .63E-07 | -156.567 | .21E-05 | 85.179 |
| 39. | 5992.304 | -2.643 | .15E-05 | 0.00 | .73E-07 | 129.227 | .20E-05 | 86.153 |
| 40. | 5997.756 | -3.095 | .15E-05 | 0.00 | .15E-06 | 104.354 | .20E-05 | 87.170 |
| 41. | 6000.928 | -3.632 | .15E-05 | 0.00 | .23E-06 | 97.173 | .20E-05 | 88.209 |
| 42. | 6001.837 | -4.227 | .15E-05 | 0.00 | .31E-06 | 94.337 | .20E-05 | 89.250 |
| 43. | 6000.601 | -4.846 | .15E-05 | 0.00 | .40E-06 | 93.097 | .20E-05 | 90.274 |
| 44. | 5997.422 | -5.451 | .15E-05 | 0.00 | .47E-06 | 92.577 | .19E-05 | 91.261 |
| 45. | 5992.551 | -6.015 | .14E-05 | 0.00 | .53E-06 | 92.410 | .19E-05 | 92.197 |
| 46. | 5986.259 | -6.514 | .14E-05 | 0.00 | .59E-06 | 92.416 | .19E-05 | 93.073 |
| 47. | 5978.808 | -6.939 | .14E-05 | 0.00 | .63E-06 | 92.497 | .19E-05 | 93.862 |
| 48. | 5970.437 | -7.284 | .14E-05 | 0.00 | .67E-06 | 92.596 | .18E-05 | 94.623 |
| 49. | 5961.355 | -7.550 | .13E-05 | 0.00 | .71E-06 | 92.682 | .18E-05 | 95.295 |

Y-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5951.739 | -7.742 | .13E-05 | 0.00 | .73E-06 | 92.735 | .18E-05 | 95.900 |
| 51. | 5941.737 | -7.864 | .13E-05 | 0.00 | .75E-06 | 92.743 | .18E-05 | 96.441 |
| 52. | 5931.475 | -7.922 | .13E-05 | 0.00 | .77E-06 | 92.702 | .18E-05 | 96.919 |
| 53. | 5921.053 | -7.923 | .13E-05 | 0.00 | .78E-06 | 92.608 | .18E-05 | 97.340 |
| 54. | 5910.557 | -7.870 | .13E-05 | 0.00 | .79E-06 | 92.459 | .18E-05 | 97.705 |
| 55. | 5900.058 | -7.770 | .13E-05 | 0.00 | .80E-06 | 92.255 | .18E-05 | 98.017 |
| 56. | 5889.615 | -7.625 | .13E-05 | 0.00 | .80E-06 | 91.997 | .18E-05 | 98.280 |
| 57. | 5879.277 | -7.440 | .12E-05 | 0.00 | .80E-06 | 91.683 | .18E-05 | 98.496 |
| 58. | 5869.085 | -7.218 | .12E-05 | 0.00 | .80E-06 | 91.315 | .18E-05 | 98.667 |
| 59. | 5859.075 | -6.963 | .12E-05 | 0.00 | .79E-06 | 90.892 | .18E-05 | 98.797 |
| 60. | 5849.277 | -6.676 | .12E-05 | 0.00 | .79E-06 | 90.415 | .18E-05 | 98.885 |
| 61. | 5839.716 | -6.361 | .12E-05 | 0.00 | .78E-06 | 89.883 | .18E-05 | 98.936 |
| 62. | 5830.413 | -6.020 | .12E-05 | 0.00 | .77E-06 | 89.295 | .18E-05 | 98.950 |
| 63. | 5821.388 | -5.655 | .12E-05 | 0.00 | .76E-06 | 88.650 | .18E-05 | 98.929 |
| 64. | 5812.655 | -5.268 | .12E-05 | 0.00 | .75E-06 | 87.946 | .18E-05 | 98.875 |
| 65. | 5804.228 | -4.862 | .12E-05 | 0.00 | .74E-06 | 87.181 | .18E-05 | 98.789 |
| 66. | 5796.118 | -4.438 | .12E-05 | 0.00 | .73E-06 | 86.352 | .18E-05 | 98.672 |
| 67. | 5788.334 | -4.000 | .12E-05 | 0.00 | .71E-06 | 85.457 | .18E-05 | 98.527 |
| 68. | 5780.883 | -3.549 | .12E-05 | 0.00 | .69E-06 | 84.489 | .18E-05 | 98.354 |
| 69. | 5773.771 | -3.087 | .12E-05 | 0.00 | .68E-06 | 83.445 | .18E-05 | 98.154 |
| 70. | 5767.002 | -2.618 | .12E-05 | 0.00 | .66E-06 | 82.317 | .19E-05 | 97.929 |
| 71. | 5760.579 | -2.144 | .12E-05 | 0.00 | .64E-06 | 81.098 | .19E-05 | 97.680 |
| 72. | 5754.505 | -1.667 | .12E-05 | 0.00 | .62E-06 | 79.778 | .19E-05 | 97.409 |
| 73. | 5748.780 | -1.190 | .12E-05 | 0.00 | .60E-06 | 78.346 | .19E-05 | 97.116 |
| 74. | 5743.405 | -.716 | .12E-05 | 0.00 | .57E-06 | 76.786 | .19E-05 | 96.803 |
| 75. | 5738.378 | -.249 | .12E-05 | 0.00 | .55E-06 | 75.062 | .19E-05 | 96.470 |
| 76. | 5733.698 | .209 | .12E-05 | 0.00 | .52E-06 | 73.212 | .19E-05 | 96.120 |
| 77. | 5729.363 | .655 | .12E-05 | 0.00 | .50E-06 | 71.149 | .20E-05 | 95.753 |
| 78. | 5725.369 | 1.085 | .12E-05 | 0.00 | .47E-06 | 68.861 | .20E-05 | 95.370 |
| 79. | 5721.715 | 1.496 | .12E-05 | 0.00 | .45E-06 | 66.307 | .20E-05 | 94.973 |
| 80. | 5718.395 | 1.885 | .12E-05 | 0.00 | .42E-06 | 63.436 | .20E-05 | 94.563 |
| 81. | 5715.408 | 2.249 | .12E-05 | 0.00 | .40E-06 | 60.185 | .20E-05 | 94.141 |
| 82. | 5712.747 | 2.584 | .13E-05 | 0.00 | .37E-06 | 56.477 | .20E-05 | 93.708 |
| 83. | 5710.411 | 2.887 | .13E-05 | 0.00 | .34E-06 | 52.219 | .20E-05 | 93.265 |
| 84. | 5708.395 | 3.157 | .13E-05 | 0.00 | .32E-06 | 47.303 | .20E-05 | 92.814 |
| 85. | 5706.696 | 3.389 | .13E-05 | 0.00 | .29E-06 | 41.610 | .20E-05 | 92.356 |
| 86. | 5705.310 | 3.582 | .13E-05 | 0.00 | .27E-06 | 35.028 | .20E-05 | 91.892 |
| 87. | 5704.235 | 3.735 | .13E-05 | 0.00 | .26E-06 | 27.485 | .20E-05 | 91.423 |
| 88. | 5703.469 | 3.845 | .13E-05 | 0.00 | .24E-06 | 18.997 | .20E-05 | 90.951 |
| 89. | 5703.010 | 3.912 | .13E-05 | 0.00 | .24E-06 | 9.724 | .20E-05 | 90.476 |
| 90. | 5702.857 | 3.934 | .13E-05 | 0.00 | .23E-06 | 0.000 | .20E-05 | 90.000 |
| 91. | 5703.010 | 3.912 | .13E-05 | 0.00 | .24E-06 | -9.724 | .20E-05 | 89.524 |
| 92. | 5703.469 | 3.845 | .13E-05 | 0.00 | .24E-06 | -18.997 | .20E-05 | 89.049 |
| 93. | 5704.235 | 3.735 | .13E-05 | 0.00 | .26E-06 | -27.485 | .20E-05 | 88.577 |
| 94. | 5705.310 | 3.582 | .13E-05 | 0.00 | .27E-06 | -35.028 | .20E-05 | 88.108 |
| 95. | 5706.696 | 3.389 | .13E-05 | 0.00 | .29E-06 | -41.610 | .20E-05 | 87.644 |
| 96. | 5708.395 | 3.157 | .13E-05 | 0.00 | .32E-06 | -47.303 | .20E-05 | 87.186 |
| 97. | 5710.411 | 2.887 | .13E-05 | 0.00 | .34E-06 | -52.219 | .20E-05 | 86.735 |
| 98. | 5712.747 | 2.584 | .13E-05 | 0.00 | .37E-06 | -56.477 | .20E-05 | 86.292 |
| 99. | 5715.408 | 2.249 | .12E-05 | 0.00 | .40E-06 | -60.185 | .20E-05 | 85.859 |

Y-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5718.395 | 1.885 | .12E-05 | 0.00 | .42E-06 | -63.436 | .20E-05 | 85.437 |
| 101. | 5721.715 | 1.496 | .12E-05 | 0.00 | .45E-06 | -66.307 | .20E-05 | 85.027 |
| 102. | 5725.369 | 1.085 | .12E-05 | 0.00 | .47E-06 | -68.861 | .20E-05 | 84.630 |
| 103. | 5729.363 | .655 | .12E-05 | 0.00 | .50E-06 | -71.149 | .20E-05 | 84.247 |
| 104. | 5733.698 | .209 | .12E-05 | 0.00 | .52E-06 | -73.212 | .19E-05 | 83.880 |
| 105. | 5738.378 | -.249 | .12E-05 | 0.00 | .55E-06 | -75.082 | .19E-05 | 83.530 |
| 106. | 5743.405 | -.716 | .12E-05 | 0.00 | .57E-06 | -76.786 | .19E-05 | 83.197 |
| 107. | 5748.780 | -1.190 | .12E-05 | 0.00 | .60E-06 | -78.346 | .19E-05 | 82.864 |
| 108. | 5754.505 | -1.667 | .12E-05 | 0.00 | .62E-06 | -79.778 | .19E-05 | 82.591 |
| 109. | 5760.579 | -2.144 | .12E-05 | 0.00 | .64E-06 | -81.098 | .19E-05 | 82.320 |
| 110. | 5767.002 | -2.618 | .12E-05 | 0.00 | .66E-06 | -82.317 | .19E-05 | 82.071 |
| 111. | 5773.771 | -3.087 | .12E-05 | 0.00 | .68E-06 | -83.445 | .18E-05 | 81.846 |
| 112. | 5780.883 | -3.549 | .12E-05 | 0.00 | .69E-06 | -84.489 | .18E-05 | 81.646 |
| 113. | 5788.334 | -4.000 | .12E-05 | 0.00 | .71E-06 | -85.457 | .18E-05 | 81.473 |
| 114. | 5796.118 | -4.438 | .12E-05 | 0.00 | .73E-06 | -86.352 | .18E-05 | 81.328 |
| 115. | 5804.228 | -4.862 | .12E-05 | 0.00 | .74E-06 | -87.161 | .18E-05 | 81.211 |
| 116. | 5812.655 | -5.268 | .12E-05 | 0.00 | .75E-06 | -87.946 | .18E-05 | 81.125 |
| 117. | 5821.388 | -5.655 | .12E-05 | 0.00 | .76E-06 | -88.650 | .18E-05 | 81.071 |
| 118. | 5830.413 | -6.020 | .12E-05 | 0.00 | .77E-06 | -89.295 | .18E-05 | 81.050 |
| 119. | 5839.716 | -6.361 | .12E-05 | 0.00 | .78E-06 | -89.883 | .18E-05 | 81.064 |
| 120. | 5849.277 | -6.676 | .12E-05 | 0.00 | .79E-06 | -90.415 | .18E-05 | 81.115 |
| 121. | 5859.075 | -6.963 | .12E-05 | 0.00 | .79E-06 | -90.892 | .18E-05 | 81.203 |
| 122. | 5869.085 | -7.218 | .12E-05 | 0.00 | .80E-06 | -91.315 | .18E-05 | 81.333 |
| 123. | 5879.277 | -7.440 | .12E-05 | 0.00 | .80E-06 | -91.683 | .18E-05 | 81.504 |
| 124. | 5889.615 | -7.625 | .13E-05 | 0.00 | .80E-06 | -91.997 | .18E-05 | 81.720 |
| 125. | 5900.058 | -7.770 | .13E-05 | 0.00 | .80E-06 | -92.255 | .18E-05 | 81.983 |
| 126. | 5910.557 | -7.870 | .13E-05 | 0.00 | .79E-06 | -92.459 | .18E-05 | 82.295 |
| 127. | 5921.053 | -7.923 | .13E-05 | 0.00 | .78E-06 | -92.608 | .18E-05 | 82.660 |
| 128. | 5931.475 | -7.922 | .13E-05 | 0.00 | .77E-06 | -92.702 | .18E-05 | 83.081 |
| 129. | 5941.737 | -7.864 | .13E-05 | 0.00 | .75E-06 | -92.743 | .18E-05 | 83.559 |
| 130. | 5951.739 | -7.742 | .13E-05 | 0.00 | .73E-06 | -92.735 | .18E-05 | 84.100 |
| 131. | 5961.355 | -7.550 | .13E-05 | 0.00 | .71E-06 | -92.682 | .18E-05 | 84.705 |
| 132. | 5970.437 | -7.284 | .14E-05 | 0.00 | .67E-06 | -92.596 | .18E-05 | 85.377 |
| 133. | 5978.808 | -6.939 | .14E-05 | 0.00 | .63E-06 | -92.497 | .19E-05 | 86.118 |
| 134. | 5986.259 | -6.514 | .14E-05 | 0.00 | .59E-06 | -92.416 | .19E-05 | 86.927 |
| 135. | 5992.551 | -6.015 | .14E-05 | 0.00 | .53E-06 | -92.410 | .19E-05 | 87.803 |
| 136. | 5997.422 | -5.451 | .15E-05 | 0.00 | .47E-06 | -92.577 | .19E-05 | 88.739 |
| 137. | 6000.601 | -4.846 | .15E-05 | 0.00 | .40E-06 | -93.097 | .20E-05 | 89.726 |
| 138. | 6001.837 | -4.227 | .15E-05 | 0.00 | .31E-06 | -94.337 | .20E-05 | 90.750 |
| 139. | 6000.928 | -3.632 | .15E-05 | 0.00 | .23E-06 | -97.173 | .20E-05 | 91.791 |
| 140. | 5997.756 | -3.095 | .15E-05 | 0.00 | .15E-06 | -104.354 | .20E-05 | 92.830 |
| 141. | 5992.304 | -2.643 | .15E-05 | 0.00 | .73E-07 | -129.227 | .20E-05 | 93.847 |
| 142. | 5984.662 | -2.287 | .15E-05 | 0.00 | .63E-07 | 156.567 | .21E-05 | 94.821 |
| 143. | 5975.006 | -2.027 | .15E-05 | 0.00 | .12E-06 | 124.913 | .21E-05 | 95.738 |
| 144. | 5963.569 | -1.852 | .15E-05 | 0.00 | .19E-06 | 116.169 | .20E-05 | 96.588 |
| 145. | 5950.614 | -1.744 | .15E-05 | 0.00 | .25E-06 | 112.592 | .20E-05 | 97.364 |
| 146. | 5936.406 | -1.688 | .15E-05 | 0.00 | .30E-06 | 110.787 | .20E-05 | 98.062 |
| 147. | 5921.198 | -1.667 | .15E-05 | 0.00 | .35E-06 | 109.755 | .20E-05 | 98.683 |
| 148. | 5905.221 | -1.669 | .15E-05 | 0.00 | .39E-06 | 109.102 | .20E-05 | 99.226 |
| 149. | 5888.680 | -1.683 | .14E-05 | 0.00 | .43E-06 | 108.647 | .20E-05 | 99.694 |

Y-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5871.756 | -1.703 | .14E-05 | 0.00 | .46E-06 | 108.294 | .20E-05 | 100.089 |
| 151. | 5854.606 | -1.723 | .14E-05 | 0.00 | .48E-06 | 107.992 | .20E-05 | 100.414 |
| 152. | 5837.367 | -1.740 | .14E-05 | 0.00 | .50E-06 | 107.708 | .20E-05 | 100.671 |
| 153. | 5820.157 | -1.752 | .13E-05 | 0.00 | .52E-06 | 107.423 | .19E-05 | 100.864 |
| 154. | 5803.078 | -1.757 | .13E-05 | 0.00 | .54E-06 | 107.126 | .19E-05 | 100.994 |
| 155. | 5786.218 | -1.755 | .13E-05 | 0.00 | .56E-06 | 106.807 | .19E-05 | 101.065 |
| 156. | 5769.654 | -1.746 | .13E-05 | 0.00 | .57E-06 | 106.462 | .19E-05 | 101.079 |
| 157. | 5753.452 | -1.729 | .13E-05 | 0.00 | .58E-06 | 106.088 | .19E-05 | 101.039 |
| 158. | 5737.671 | -1.704 | .13E-05 | 0.00 | .59E-06 | 105.683 | .19E-05 | 100.946 |
| 159. | 5722.360 | -1.672 | .12E-05 | 0.00 | .60E-06 | 105.245 | .19E-05 | 100.803 |
| 160. | 5707.565 | -1.633 | .12E-05 | 0.00 | .60E-06 | 104.775 | .19E-05 | 100.613 |
| 161. | 5693.323 | -1.588 | .12E-05 | 0.00 | .61E-06 | 104.273 | .19E-05 | 100.376 |
| 162. | 5679.667 | -1.536 | .12E-05 | 0.00 | .62E-06 | 103.738 | .19E-05 | 100.096 |
| 163. | 5666.629 | -1.479 | .12E-05 | 0.00 | .62E-06 | 103.171 | .19E-05 | 99.774 |
| 164. | 5654.233 | -1.417 | .12E-05 | 0.00 | .62E-06 | 102.573 | .19E-05 | 99.412 |
| 165. | 5642.501 | -1.350 | .12E-05 | 0.00 | .63E-06 | 101.946 | .19E-05 | 99.013 |
| 166. | 5631.454 | -1.278 | .12E-05 | 0.00 | .63E-06 | 101.289 | .19E-05 | 98.578 |
| 167. | 5621.108 | -1.203 | .11E-05 | 0.00 | .63E-06 | 100.605 | .19E-05 | 98.110 |
| 168. | 5611.479 | -1.124 | .11E-05 | 0.00 | .64E-06 | 99.896 | .19E-05 | 97.610 |
| 169. | 5602.580 | -1.041 | .11E-05 | 0.00 | .64E-06 | 99.162 | .18E-05 | 97.081 |
| 170. | 5594.422 | -.956 | .11E-05 | 0.00 | .64E-06 | 98.404 | .18E-05 | 96.526 |
| 171. | 5587.014 | -.867 | .11E-05 | 0.00 | .64E-06 | 97.626 | .18E-05 | 95.945 |
| 172. | 5580.366 | -.777 | .11E-05 | 0.00 | .64E-06 | 96.829 | .18E-05 | 95.342 |
| 173. | 5574.485 | -.684 | .11E-05 | 0.00 | .64E-06 | 96.014 | .18E-05 | 94.719 |
| 174. | 5569.376 | -.590 | .11E-05 | 0.00 | .65E-06 | 95.184 | .18E-05 | 94.078 |
| 175. | 5565.045 | -.494 | .11E-05 | 0.00 | .65E-06 | 94.341 | .18E-05 | 93.422 |
| 176. | 5561.496 | -.396 | .11E-05 | 0.00 | .65E-06 | 93.486 | .18E-05 | 92.753 |
| 177. | 5558.732 | -.298 | .11E-05 | 0.00 | .65E-06 | 92.623 | .18E-05 | 92.074 |
| 178. | 5556.756 | -.199 | .11E-05 | 0.00 | .65E-06 | 91.752 | .18E-05 | 91.387 |
| 179. | 5555.570 | -.100 | .11E-05 | 0.00 | .65E-06 | 90.877 | .18E-05 | 90.695 |
| 180. | 5555.174 | 0.000 | .11E-05 | 0.00 | .65E-06 | 90.000 | .18E-05 | 90.000 |

Z-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | -90.000 | .15E-05 | 90.000 |
| 1. | 5639.759 | .182 | .94E-06 | 0.00 | .97E-06 | -89.434 | .15E-05 | 90.347 |
| 2. | 5640.662 | .363 | .94E-06 | 0.00 | .97E-06 | -88.870 | .15E-05 | 90.693 |
| 3. | 5642.166 | .543 | .94E-06 | 0.00 | .97E-06 | -88.310 | .15E-05 | 91.034 |
| 4. | 5644.266 | .723 | .94E-06 | 0.00 | .97E-06 | -87.755 | .15E-05 | 91.369 |
| 5. | 5646.960 | .901 | .94E-06 | 0.00 | .96E-06 | -87.208 | .15E-05 | 91.697 |
| 6. | 5650.241 | 1.077 | .95E-06 | 0.00 | .96E-06 | -86.671 | .15E-05 | 92.015 |
| 7. | 5654.103 | 1.251 | .95E-06 | 0.00 | .96E-06 | -86.146 | .15E-05 | 92.321 |
| 8. | 5658.537 | 1.423 | .96E-06 | 0.00 | .95E-06 | -85.635 | .15E-05 | 92.614 |
| 9. | 5663.533 | 1.592 | .96E-06 | 0.00 | .95E-06 | -85.139 | .15E-05 | 92.890 |
| 10. | 5669.077 | 1.757 | .97E-06 | 0.00 | .94E-06 | -84.661 | .15E-05 | 93.148 |
| 11. | 5675.156 | 1.919 | .98E-06 | 0.00 | .93E-06 | -84.204 | .15E-05 | 93.386 |
| 12. | 5681.751 | 2.076 | .98E-06 | 0.00 | .92E-06 | -83.768 | .16E-05 | 93.601 |
| 13. | 5688.841 | 2.228 | .99E-06 | 0.00 | .91E-06 | -83.357 | .16E-05 | 93.791 |
| 14. | 5696.401 | 2.375 | .10E-05 | 0.00 | .90E-06 | -82.972 | .16E-05 | 93.953 |
| 15. | 5704.401 | 2.516 | .10E-05 | 0.00 | .89E-06 | -82.616 | .16E-05 | 94.084 |
| 16. | 5712.805 | 2.650 | .10E-05 | 0.00 | .87E-06 | -82.290 | .16E-05 | 94.181 |
| 17. | 5721.569 | 2.777 | .10E-05 | 0.00 | .85E-06 | -81.996 | .16E-05 | 94.241 |
| 18. | 5730.640 | 2.896 | .11E-05 | 0.00 | .83E-06 | -81.736 | .16E-05 | 94.261 |
| 19. | 5739.955 | 3.006 | .11E-05 | 0.00 | .80E-06 | -81.509 | .17E-05 | 94.236 |
| 20. | 5749.433 | 3.106 | .11E-05 | 0.00 | .77E-06 | -81.314 | .17E-05 | 94.162 |
| 21. | 5758.977 | 3.194 | .11E-05 | 0.00 | .74E-06 | -81.144 | .17E-05 | 94.035 |
| 22. | 5768.467 | 3.271 | .11E-05 | 0.00 | .70E-06 | -80.990 | .17E-05 | 93.850 |
| 23. | 5777.751 | 3.336 | .12E-05 | 0.00 | .65E-06 | -80.829 | .18E-05 | 93.601 |
| 24. | 5786.647 | 3.387 | .12E-05 | 0.00 | .59E-06 | -80.616 | .18E-05 | 93.284 |
| 25. | 5794.929 | 3.424 | .12E-05 | 0.00 | .52E-06 | -80.264 | .18E-05 | 92.895 |
| 26. | 5802.333 | 3.450 | .12E-05 | 0.00 | .44E-06 | -79.589 | .18E-05 | 92.434 |
| 27. | 5808.562 | 3.464 | .12E-05 | 0.00 | .34E-06 | -78.154 | .19E-05 | 91.902 |
| 28. | 5813.308 | 3.470 | .13E-05 | 0.00 | .24E-06 | -74.691 | .19E-05 | 91.308 |
| 29. | 5816.289 | 3.472 | .13E-05 | 0.00 | .13E-06 | -63.640 | .19E-05 | 90.667 |
| 30. | 5817.308 | 3.472 | .13E-05 | 0.00 | .57E-07 | 0.000 | .19E-05 | 90.000 |
| 31. | 5816.289 | 3.472 | .13E-05 | 0.00 | .13E-06 | 63.640 | .19E-05 | 89.333 |
| 32. | 5813.308 | 3.470 | .13E-05 | 0.00 | .24E-06 | 74.691 | .19E-05 | 88.692 |
| 33. | 5808.562 | 3.464 | .12E-05 | 0.00 | .34E-06 | 78.154 | .19E-05 | 88.098 |
| 34. | 5802.333 | 3.450 | .12E-05 | 0.00 | .44E-06 | 79.589 | .18E-05 | 87.566 |
| 35. | 5794.929 | 3.424 | .12E-05 | 0.00 | .52E-06 | 80.264 | .18E-05 | 87.105 |
| 36. | 5786.647 | 3.387 | .12E-05 | 0.00 | .59E-06 | 80.616 | .18E-05 | 86.716 |
| 37. | 5777.751 | 3.336 | .12E-05 | 0.00 | .65E-06 | 80.829 | .18E-05 | 86.399 |
| 38. | 5768.467 | 3.271 | .11E-05 | 0.00 | .70E-06 | 80.990 | .17E-05 | 86.150 |
| 39. | 5758.977 | 3.194 | .11E-05 | 0.00 | .74E-06 | 81.144 | .17E-05 | 85.965 |
| 40. | 5749.433 | 3.106 | .11E-05 | 0.00 | .77E-06 | 81.314 | .17E-05 | 85.838 |
| 41. | 5739.955 | 3.006 | .11E-05 | 0.00 | .80E-06 | 81.509 | .17E-05 | 85.764 |
| 42. | 5730.640 | 2.896 | .11E-05 | 0.00 | .83E-06 | 81.736 | .16E-05 | 85.739 |
| 43. | 5721.569 | 2.777 | .10E-05 | 0.00 | .85E-06 | 81.996 | .16E-05 | 85.759 |
| 44. | 5712.805 | 2.650 | .10E-05 | 0.00 | .87E-06 | 82.290 | .16E-05 | 85.819 |
| 45. | 5704.401 | 2.516 | .10E-05 | 0.00 | .89E-06 | 82.616 | .16E-05 | 85.916 |
| 46. | 5696.401 | 2.375 | .10E-05 | 0.00 | .90E-06 | 82.972 | .16E-05 | 86.047 |
| 47. | 5688.841 | 2.228 | .99E-06 | 0.00 | .91E-06 | 83.357 | .16E-05 | 86.209 |
| 48. | 5681.751 | 2.076 | .98E-06 | 0.00 | .92E-06 | 83.768 | .16E-05 | 86.399 |
| 49. | 5675.156 | 1.919 | .98E-06 | 0.00 | .93E-06 | 84.204 | .15E-05 | 86.614 |

Z-AXIS CYLINDER SAPPHIRE

| | WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5669.077 | 1.757 | .97E-06 | 0.00 | .94E-06 | 84.661 | .15E-05 | 86.852 |
| 51. | 5663.533 | 1.592 | .96E-06 | 0.00 | .95E-06 | 85.139 | .15E-05 | 87.110 |
| 52. | 5658.537 | 1.423 | .96E-06 | 0.00 | .95E-06 | 85.635 | .15E-05 | 87.386 |
| 53. | 5654.103 | 1.251 | .95E-06 | 0.00 | .96E-06 | 86.146 | .15E-05 | 87.679 |
| 54. | 5650.241 | 1.077 | .95E-06 | 0.00 | .96E-06 | 86.671 | .15E-05 | 87.985 |
| 55. | 5646.960 | .901 | .94E-06 | 0.00 | .96E-06 | 87.208 | .15E-05 | 88.303 |
| 56. | 5644.266 | .723 | .94E-06 | 0.00 | .97E-06 | 87.755 | .15E-05 | 88.631 |
| 57. | 5642.166 | .543 | .94E-06 | 0.00 | .97E-06 | 88.310 | .15E-05 | 88.966 |
| 58. | 5640.662 | .363 | .94E-06 | 0.00 | .97E-06 | 88.870 | .15E-05 | 89.307 |
| 59. | 5639.759 | .182 | .94E-06 | 0.00 | .97E-06 | 89.434 | .15E-05 | 89.653 |
| 60. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | 90.000 | .15E-05 | 90.000 |
| 61. | 5639.759 | -.182 | .94E-06 | 0.00 | .97E-06 | 90.566 | .15E-05 | 90.347 |
| 62. | 5640.662 | -.363 | .94E-06 | 0.00 | .97E-06 | 91.130 | .15E-05 | 90.693 |
| 63. | 5642.166 | -.543 | .94E-06 | 0.00 | .97E-06 | 91.690 | .15E-05 | 91.034 |
| 64. | 5644.266 | -.723 | .94E-06 | 0.00 | .97E-06 | 92.245 | .15E-05 | 91.369 |
| 65. | 5646.960 | -.901 | .94E-06 | 0.00 | .96E-06 | 92.792 | .15E-05 | 91.697 |
| 66. | 5650.241 | -1.077 | .95E-06 | 0.00 | .96E-06 | 93.329 | .15E-05 | 92.015 |
| 67. | 5654.103 | -1.251 | .95E-06 | 0.00 | .96E-06 | 93.854 | .15E-05 | 92.321 |
| 68. | 5658.537 | -1.423 | .96E-06 | 0.00 | .95E-06 | 94.365 | .15E-05 | 92.614 |
| 69. | 5663.533 | -1.592 | .96E-06 | 0.00 | .95E-06 | 94.861 | .15E-05 | 92.890 |
| 70. | 5669.077 | -1.757 | .97E-06 | 0.00 | .94E-06 | 95.339 | .15E-05 | 93.148 |
| 71. | 5675.156 | -1.919 | .98E-06 | 0.00 | .93E-06 | 95.796 | .15E-05 | 93.386 |
| 72. | 5681.751 | -2.076 | .98E-06 | 0.00 | .92E-06 | 96.232 | .16E-05 | 93.601 |
| 73. | 5688.841 | -2.228 | .99E-06 | 0.00 | .91E-06 | 96.643 | .16E-05 | 93.791 |
| 74. | 5696.401 | -2.375 | .10E-05 | 0.00 | .90E-06 | 97.028 | .16E-05 | 93.953 |
| 75. | 5704.401 | -2.516 | .10E-05 | 0.00 | .89E-06 | 97.384 | .16E-05 | 94.084 |
| 76. | 5712.805 | -2.650 | .10E-05 | 0.00 | .87E-06 | 97.710 | .16E-05 | 94.181 |
| 77. | 5721.569 | -2.777 | .10E-05 | 0.00 | .85E-06 | 98.004 | .16E-05 | 94.241 |
| 78. | 5730.640 | -2.896 | .11E-05 | 0.00 | .83E-06 | 98.264 | .16E-05 | 94.261 |
| 79. | 5739.955 | -3.006 | .11E-05 | 0.00 | .80E-06 | 98.491 | .17E-05 | 94.236 |
| 80. | 5749.433 | -3.106 | .11E-05 | 0.00 | .77E-06 | 98.686 | .17E-05 | 94.162 |
| 81. | 5758.977 | -3.194 | .11E-05 | 0.00 | .74E-06 | 98.856 | .17E-05 | 94.035 |
| 82. | 5768.467 | -3.271 | .11E-05 | 0.00 | .70E-06 | 99.010 | .17E-05 | 93.850 |
| 83. | 5777.751 | -3.336 | .12E-05 | 0.00 | .65E-06 | 99.171 | .18E-05 | 93.601 |
| 84. | 5786.647 | -3.387 | .12E-05 | 0.00 | .59E-06 | 99.384 | .18E-05 | 93.284 |
| 85. | 5794.929 | -3.424 | .12E-05 | 0.00 | .52E-06 | 99.736 | .18E-05 | 92.895 |
| 86. | 5802.333 | -3.450 | .12E-05 | 0.00 | .44E-06 | 100.411 | .18E-05 | 92.434 |
| 87. | 5808.562 | -3.464 | .12E-05 | 0.00 | .34E-06 | 101.846 | .19E-05 | 91.902 |
| 88. | 5813.308 | -3.470 | .13E-05 | 0.00 | .24E-06 | 105.309 | .19E-05 | 91.308 |
| 89. | 5816.289 | -3.472 | .13E-05 | 0.00 | .13E-06 | 116.360 | .19E-05 | 90.667 |
| 90. | 5817.308 | -3.472 | .13E-05 | 0.00 | .57E-07 | 180.000 | .19E-05 | 90.000 |
| 91. | 5816.289 | -3.472 | .13E-05 | 0.00 | .13E-06 | -116.360 | .19E-05 | 89.333 |
| 92. | 5813.308 | -3.470 | .13E-05 | 0.00 | .24E-06 | -105.309 | .19E-05 | 88.692 |
| 93. | 5808.562 | -3.464 | .12E-05 | 0.00 | .34E-06 | -101.846 | .19E-05 | 88.098 |
| 94. | 5802.333 | -3.450 | .12E-05 | 0.00 | .44E-06 | -100.411 | .18E-05 | 87.566 |
| 95. | 5794.929 | -3.424 | .12E-05 | 0.00 | .52E-06 | -99.736 | .18E-05 | 87.105 |
| 96. | 5786.647 | -3.387 | .12E-05 | 0.00 | .59E-06 | -99.384 | .18E-05 | 86.716 |
| 97. | 5777.751 | -3.336 | .12E-05 | 0.00 | .65E-06 | -99.171 | .18E-05 | 86.399 |
| 98. | 5768.467 | -3.271 | .11E-05 | 0.00 | .70E-06 | -99.010 | .17E-05 | 86.150 |
| 99. | 5758.977 | -3.194 | .11E-05 | 0.00 | .74E-06 | -98.856 | .17E-05 | 85.965 |

Z-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5749.433 | -3.106 | .11E-05 | 0.00 | .77E-06 | -98.686 | .17E-05 | 85.838 |
| 101. | 5739.955 | -3.006 | .11E-05 | 0.00 | .80E-06 | -98.491 | .17E-05 | 85.764 |
| 102. | 5730.640 | -2.896 | .11E-05 | 0.00 | .83E-06 | -98.264 | .16E-05 | 85.739 |
| 103. | 5721.569 | -2.777 | .10E-05 | 0.00 | .85E-06 | -98.004 | .16E-05 | 85.759 |
| 104. | 5712.805 | -2.650 | .10E-05 | 0.00 | .87E-06 | -97.710 | .16E-05 | 85.819 |
| 105. | 5704.401 | -2.516 | .10E-05 | 0.00 | .89E-06 | -97.384 | .16E-05 | 85.916 |
| 106. | 5696.401 | -2.375 | .10E-05 | 0.00 | .90E-06 | -97.028 | .16E-05 | 86.047 |
| 107. | 5688.841 | -2.228 | .99E-06 | 0.00 | .91E-06 | -96.643 | .16E-05 | 86.209 |
| 108. | 5681.751 | -2.076 | .98E-06 | 0.00 | .92E-06 | -96.232 | .16E-05 | 86.399 |
| 109. | 5675.156 | -1.919 | .98E-06 | 0.00 | .93E-06 | -95.796 | .15E-05 | 86.614 |
| 110. | 5669.077 | -1.757 | .97E-06 | 0.00 | .94E-06 | -95.339 | .15E-05 | 86.852 |
| 111. | 5663.533 | -1.592 | .96E-06 | 0.00 | .95E-06 | -94.861 | .15E-05 | 87.110 |
| 112. | 5658.537 | -1.423 | .96E-06 | 0.00 | .95E-06 | -94.365 | .15E-05 | 87.386 |
| 113. | 5654.103 | -1.251 | .95E-06 | 0.00 | .96E-06 | -93.854 | .15E-05 | 87.679 |
| 114. | 5650.241 | -1.077 | .95E-06 | 0.00 | .96E-06 | -93.329 | .15E-05 | 87.985 |
| 115. | 5646.960 | -.901 | .94E-06 | 0.00 | .96E-06 | -92.792 | .15E-05 | 88.303 |
| 116. | 5644.266 | -.723 | .94E-06 | 0.00 | .97E-06 | -92.245 | .15E-05 | 88.631 |
| 117. | 5642.166 | -.543 | .94E-06 | 0.00 | .97E-06 | -91.690 | .15E-05 | 88.966 |
| 118. | 5640.662 | -.363 | .94E-06 | 0.00 | .97E-06 | -91.130 | .15E-05 | 89.307 |
| 119. | 5639.759 | -.182 | .94E-06 | 0.00 | .97E-06 | -90.566 | .15E-05 | 89.653 |
| 120. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | -90.000 | .15E-05 | 90.000 |
| 121. | 5639.759 | .182 | .94E-06 | 0.00 | .97E-06 | -89.434 | .15E-05 | 90.347 |
| 122. | 5640.662 | .363 | .94E-06 | 0.00 | .97E-06 | -88.870 | .15E-05 | 90.693 |
| 123. | 5642.166 | .543 | .94E-06 | 0.00 | .97E-06 | -88.310 | .15E-05 | 91.034 |
| 124. | 5644.266 | .723 | .94E-06 | 0.00 | .97E-06 | -87.755 | .15E-05 | 91.369 |
| 125. | 5646.960 | .901 | .94E-06 | 0.00 | .96E-06 | -87.208 | .15E-05 | 91.697 |
| 126. | 5650.241 | 1.077 | .95E-06 | 0.00 | .96E-06 | -86.671 | .15E-05 | 92.015 |
| 127. | 5654.103 | 1.251 | .95E-06 | 0.00 | .96E-06 | -86.146 | .15E-05 | 92.321 |
| 128. | 5658.537 | 1.423 | .96E-06 | 0.00 | .95E-06 | -85.635 | .15E-05 | 92.614 |
| 129. | 5663.533 | 1.592 | .96E-06 | 0.00 | .95E-06 | -85.139 | .15E-05 | 92.890 |
| 130. | 5669.077 | 1.757 | .97E-06 | 0.00 | .94E-06 | -84.661 | .15E-05 | 93.148 |
| 131. | 5675.156 | 1.919 | .98E-06 | 0.00 | .93E-06 | -84.204 | .15E-05 | 93.386 |
| 132. | 5681.751 | 2.076 | .98E-06 | 0.00 | .92E-06 | -83.768 | .16E-05 | 93.601 |
| 133. | 5688.841 | 2.228 | .99E-06 | 0.00 | .91E-06 | -83.357 | .16E-05 | 93.791 |
| 134. | 5696.401 | 2.375 | .10E-05 | 0.00 | .90E-06 | -82.972 | .16E-05 | 93.953 |
| 135. | 5704.401 | 2.516 | .10E-05 | 0.00 | .89E-06 | -82.616 | .16E-05 | 94.084 |
| 136. | 5712.805 | 2.650 | .10E-05 | 0.00 | .87E-06 | -82.290 | .16E-05 | 94.181 |
| 137. | 5721.569 | 2.777 | .10E-05 | 0.00 | .85E-06 | -81.996 | .16E-05 | 94.241 |
| 138. | 5730.640 | 2.896 | .11E-05 | 0.00 | .83E-06 | -81.736 | .16E-05 | 94.261 |
| 139. | 5739.955 | 3.006 | .11E-05 | 0.00 | .80E-06 | -81.509 | .17E-05 | 94.236 |
| 140. | 5749.433 | 3.106 | .11E-05 | 0.00 | .77E-06 | -81.314 | .17E-05 | 94.162 |
| 141. | 5758.977 | 3.194 | .11E-05 | 0.00 | .74E-06 | -81.144 | .17E-05 | 94.035 |
| 142. | 5768.467 | 3.271 | .11E-05 | 0.00 | .70E-06 | -80.990 | .17E-05 | 93.850 |
| 143. | 5777.751 | 3.336 | .12E-05 | 0.00 | .65E-06 | -80.829 | .18E-05 | 93.601 |
| 144. | 5786.647 | 3.387 | .12E-05 | 0.00 | .59E-06 | -80.616 | .18E-05 | 93.284 |
| 145. | 5794.929 | 3.424 | .12E-05 | 0.00 | .52E-06 | -80.264 | .18E-05 | 92.895 |
| 146. | 5802.333 | 3.450 | .12E-05 | 0.00 | .44E-06 | -79.589 | .18E-05 | 92.434 |
| 147. | 5808.562 | 3.464 | .12E-05 | 0.00 | .34E-06 | -78.154 | .19E-05 | 91.902 |
| 148. | 5813.308 | 3.470 | .13E-05 | 0.00 | .24E-06 | -74.691 | .19E-05 | 91.308 |
| 149. | 5816.289 | 3.472 | .13E-05 | 0.00 | .13E-06 | -63.640 | .19E-05 | 90.667 |

Z-AXIS CYLINDER SAPPHIRE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5817.308 | 3.472 | .13E-05 | 0.00 | .57E-07 | 0.000 | .19E-05 | 90.000 |
| 151. | 5816.289 | 3.472 | .13E-05 | 0.00 | .13E-06 | 63.640 | .19E-05 | 89.333 |
| 152. | 5813.308 | 3.470 | .13E-05 | 0.00 | .24E-06 | 74.691 | .19E-05 | 88.692 |
| 153. | 5808.562 | 3.464 | .12E-05 | 0.00 | .34E-06 | 78.154 | .19E-05 | 88.098 |
| 154. | 5802.333 | 3.450 | .12E-05 | 0.00 | .44E-06 | 79.589 | .18E-05 | 87.566 |
| 155. | 5794.929 | 3.424 | .12E-05 | 0.00 | .52E-06 | 80.264 | .18E-05 | 87.105 |
| 156. | 5786.647 | 3.387 | .12E-05 | 0.00 | .59E-06 | 80.616 | .18E-05 | 86.716 |
| 157. | 5777.751 | 3.336 | .12E-05 | 0.00 | .65E-06 | 80.829 | .18E-05 | 86.399 |
| 158. | 5768.467 | 3.271 | .11E-05 | 0.00 | .70E-06 | 80.990 | .17E-05 | 86.150 |
| 159. | 5758.977 | 3.194 | .11E-05 | 0.00 | .74E-06 | 81.144 | .17E-05 | 85.965 |
| 160. | 5749.433 | 3.106 | .11E-05 | 0.00 | .77E-06 | 81.314 | .17E-05 | 85.838 |
| 161. | 5739.955 | 3.006 | .11E-05 | 0.00 | .80E-06 | 81.509 | .17E-05 | 85.764 |
| 162. | 5730.640 | 2.896 | .11E-05 | 0.00 | .83E-06 | 81.736 | .16E-05 | 85.739 |
| 163. | 5721.569 | 2.777 | .10E-05 | 0.00 | .85E-06 | 81.996 | .16E-05 | 85.759 |
| 164. | 5712.805 | 2.650 | .10E-05 | 0.00 | .87E-06 | 82.290 | .16E-05 | 85.819 |
| 165. | 5704.401 | 2.516 | .10E-05 | 0.00 | .89E-06 | 82.616 | .16E-05 | 85.916 |
| 166. | 5696.401 | 2.375 | .10E-05 | 0.00 | .90E-06 | 82.972 | .16E-05 | 86.047 |
| 167. | 5688.841 | 2.228 | .99E-06 | 0.00 | .91E-06 | 83.357 | .16E-05 | 86.209 |
| 168. | 5681.751 | 2.076 | .98E-06 | 0.00 | .92E-06 | 83.768 | .16E-05 | 86.399 |
| 169. | 5675.156 | 1.919 | .98E-06 | 0.00 | .93E-06 | 84.204 | .15E-05 | 86.614 |
| 170. | 5669.077 | 1.757 | .97E-06 | 0.00 | .94E-06 | 84.661 | .15E-05 | 86.852 |
| 171. | 5663.533 | 1.592 | .96E-06 | 0.00 | .95E-06 | 85.139 | .15E-05 | 87.110 |
| 172. | 5658.537 | 1.423 | .96E-06 | 0.00 | .95E-06 | 85.635 | .15E-05 | 87.386 |
| 173. | 5654.103 | 1.251 | .95E-06 | 0.00 | .96E-06 | 86.146 | .15E-05 | 87.679 |
| 174. | 5650.241 | 1.077 | .95E-06 | 0.00 | .96E-06 | 86.671 | .15E-05 | 87.985 |
| 175. | 5646.960 | .901 | .94E-06 | 0.00 | .96E-06 | 87.208 | .15E-05 | 88.303 |
| 176. | 5644.266 | .723 | .94E-06 | 0.00 | .97E-06 | 87.755 | .15E-05 | 88.631 |
| 177. | 5642.166 | .543 | .94E-06 | 0.00 | .97E-06 | 88.310 | .15E-05 | 88.966 |
| 178. | 5640.662 | .363 | .94E-06 | 0.00 | .97E-06 | 88.870 | .15E-05 | 89.307 |
| 179. | 5639.759 | .182 | .94E-06 | 0.00 | .97E-06 | 89.434 | .15E-05 | 89.653 |
| 180. | 5639.458 | 0.000 | .94E-06 | 0.00 | .97E-06 | 90.000 | .15E-05 | 90.000 |

111-CUT SILICON

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4546.116 | 0.000 | .16E-05 | 0.00 | .12E-05 | -90.000 | .28E-05 | 90.000 |
| 1. | 4546.551 | .628 | .16E-05 | 0.00 | .12E-05 | -88.854 | .28E-05 | 90.520 |
| 2. | 4547.853 | 1.251 | .16E-05 | 0.00 | .12E-05 | -87.710 | .28E-05 | 91.038 |
| 3. | 4550.015 | 1.866 | .16E-05 | 0.00 | .12E-05 | -86.571 | .28E-05 | 91.552 |
| 4. | 4553.021 | 2.467 | .16E-05 | 0.00 | .11E-05 | -85.441 | .28E-05 | 92.059 |
| 5. | 4556.855 | 3.051 | .16E-05 | 0.00 | .11E-05 | -84.320 | .28E-05 | 92.558 |
| 6. | 4561.491 | 3.614 | .16E-05 | 0.00 | .11E-05 | -83.213 | .28E-05 | 93.047 |
| 7. | 4566.900 | 4.150 | .16E-05 | 0.00 | .11E-05 | -82.122 | .28E-05 | 93.523 |
| 8. | 4573.046 | 4.656 | .17E-05 | 0.00 | .11E-05 | -81.049 | .28E-05 | 93.986 |
| 9. | 4579.887 | 5.128 | .17E-05 | 0.00 | .11E-05 | -79.996 | .28E-05 | 94.433 |
| 10. | 4587.375 | 5.561 | .17E-05 | 0.00 | .11E-05 | -78.966 | .29E-05 | 94.862 |
| 11. | 4595.458 | 5.950 | .17E-05 | 0.00 | .10E-05 | -77.962 | .29E-05 | 95.274 |
| 12. | 4604.073 | 6.292 | .17E-05 | 0.00 | .10E-05 | -76.986 | .29E-05 | 95.665 |
| 13. | 4613.154 | 6.582 | .17E-05 | 0.00 | .10E-05 | -76.040 | .29E-05 | 96.036 |
| 14. | 4622.626 | 6.814 | .18E-05 | 0.00 | .98E-06 | -75.127 | .29E-05 | 96.385 |
| 15. | 4632.408 | 6.986 | .18E-05 | 0.00 | .95E-06 | -74.249 | .29E-05 | 96.711 |
| 16. | 4642.409 | 7.091 | .18E-05 | 0.00 | .91E-06 | -73.408 | .30E-05 | 97.014 |
| 17. | 4652.532 | 7.124 | .18E-05 | 0.00 | .87E-06 | -72.608 | .30E-05 | 97.295 |
| 18. | 4662.671 | 7.082 | .18E-05 | 0.00 | .83E-06 | -71.850 | .30E-05 | 97.551 |
| 19. | 4672.713 | 6.958 | .19E-05 | 0.00 | .79E-06 | -71.138 | .30E-05 | 97.784 |
| 20. | 4682.535 | 6.749 | .19E-05 | 0.00 | .74E-06 | -70.473 | .31E-05 | 97.993 |
| 21. | 4692.011 | 6.450 | .19E-05 | 0.00 | .68E-06 | -69.860 | .31E-05 | 98.180 |
| 22. | 4701.006 | 6.059 | .19E-05 | 0.00 | .62E-06 | -69.300 | .31E-05 | 98.344 |
| 23. | 4709.383 | 5.574 | .20E-05 | 0.00 | .56E-06 | -68.797 | .31E-05 | 98.486 |
| 24. | 4717.004 | 4.996 | .20E-05 | 0.00 | .49E-06 | -68.353 | .31E-05 | 98.606 |
| 25. | 4723.732 | 4.328 | .20E-05 | 0.00 | .42E-06 | -67.972 | .31E-05 | 98.707 |
| 26. | 4729.442 | 3.577 | .20E-05 | 0.00 | .34E-06 | -67.656 | .32E-05 | 98.787 |
| 27. | 4734.016 | 2.753 | .20E-05 | 0.00 | .26E-06 | -67.407 | .32E-05 | 98.849 |
| 28. | 4737.359 | 1.870 | .20E-05 | 0.00 | .17E-06 | -67.228 | .32E-05 | 98.893 |
| 29. | 4739.395 | .946 | .20E-05 | 0.00 | .87E-07 | -67.120 | .32E-05 | 98.919 |
| 30. | 4740.079 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.927 |
| 31. | 4739.395 | -.946 | .20E-05 | 0.00 | .87E-07 | 112.880 | .32E-05 | 98.919 |
| 32. | 4737.359 | -1.870 | .20E-05 | 0.00 | .17E-06 | 112.772 | .32E-05 | 98.893 |
| 33. | 4734.016 | -2.753 | .20E-05 | 0.00 | .26E-06 | 112.593 | .32E-05 | 98.849 |
| 34. | 4729.442 | -3.577 | .20E-05 | 0.00 | .34E-06 | 112.344 | .32E-05 | 98.787 |
| 35. | 4723.732 | -4.328 | .20E-05 | 0.00 | .42E-06 | 112.028 | .31E-05 | 98.707 |
| 36. | 4717.003 | -4.996 | .20E-05 | 0.00 | .49E-06 | 111.647 | .31E-05 | 98.606 |
| 37. | 4709.383 | -5.574 | .20E-05 | 0.00 | .56E-06 | 111.203 | .31E-05 | 98.486 |
| 38. | 4701.006 | -6.059 | .19E-05 | 0.00 | .62E-06 | 110.700 | .31E-05 | 98.344 |
| 39. | 4692.011 | -6.450 | .19E-05 | 0.00 | .68E-06 | 110.140 | .31E-05 | 98.180 |
| 40. | 4682.535 | -6.749 | .19E-05 | 0.00 | .74E-06 | 109.527 | .31E-05 | 97.994 |
| 41. | 4672.712 | -6.958 | .19E-05 | 0.00 | .79E-06 | 108.862 | .30E-05 | 97.784 |
| 42. | 4662.671 | -7.082 | .18E-05 | 0.00 | .83E-06 | 108.150 | .30E-05 | 97.551 |
| 43. | 4652.531 | -7.124 | .18E-05 | 0.00 | .87E-06 | 107.392 | .30E-05 | 97.295 |
| 44. | 4642.408 | -7.091 | .18E-05 | 0.00 | .91E-06 | 106.592 | .30E-05 | 97.014 |
| 45. | 4632.407 | -6.986 | .18E-05 | 0.00 | .95E-06 | 105.751 | .29E-05 | 96.711 |
| 46. | 4622.626 | -6.814 | .18E-05 | 0.00 | .98E-06 | 104.873 | .29E-05 | 96.385 |
| 47. | 4613.153 | -6.582 | .17E-05 | 0.00 | .10E-05 | 103.960 | .29E-05 | 96.036 |
| 48. | 4604.072 | -6.292 | .17E-05 | 0.00 | .10E-05 | 103.014 | .29E-05 | 95.665 |
| 49. | 4595.457 | -5.950 | .17E-05 | 0.00 | .10E-05 | 102.038 | .29E-05 | 95.274 |

111-CUT SILICON

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4587.375 | -5.561 | .17E-05 | 0.00 | .11E-05 | 101.334 | .29E-05 | 94.862 |
| 51. | 4579.886 | -5.128 | .17E-05 | 0.00 | .11E-05 | 100.004 | .28E-05 | 94.433 |
| 52. | 4573.045 | -4.656 | .17E-05 | 0.00 | .11E-05 | 98.951 | .28E-05 | 93.986 |
| 53. | 4566.899 | -4.150 | .16E-05 | 0.00 | .11E-05 | 97.878 | .28E-05 | 93.523 |
| 54. | 4561.490 | -3.614 | .16E-05 | 0.00 | .11E-05 | 96.787 | .28E-05 | 93.047 |
| 55. | 4556.854 | -3.051 | .16E-05 | 0.00 | .11E-05 | 95.680 | .28E-05 | 92.558 |
| 56. | 4553.020 | -2.467 | .16E-05 | 0.00 | .11E-05 | 94.559 | .28E-05 | 92.059 |
| 57. | 4550.013 | -1.866 | .16E-05 | 0.00 | .12E-05 | 93.429 | .28E-05 | 91.552 |
| 58. | 4547.852 | -1.251 | .16E-05 | 0.00 | .12E-05 | 92.290 | .28E-05 | 91.038 |
| 59. | 4546.550 | -.628 | .16E-05 | 0.00 | .12E-05 | 91.146 | .28E-05 | 90.520 |
| 60. | 4546.116 | 0.000 | .16E-05 | 0.00 | .12E-05 | 90.000 | .28E-05 | 90.000 |
| 61. | 4546.555 | .628 | .16E-05 | 0.00 | .12E-05 | 88.854 | .28E-05 | 89.480 |
| 62. | 4547.856 | 1.251 | .16E-05 | 0.00 | .12E-05 | 87.710 | .28E-05 | 88.962 |
| 63. | 4550.016 | 1.866 | .16E-05 | 0.00 | .12E-05 | 86.571 | .28E-05 | 88.448 |
| 64. | 4553.023 | 2.467 | .16E-05 | 0.00 | .11E-05 | 85.441 | .28E-05 | 87.941 |
| 65. | 4556.856 | 3.051 | .16E-05 | 0.00 | .11E-05 | 84.320 | .28E-05 | 87.442 |
| 66. | 4561.492 | 3.614 | .16E-05 | 0.00 | .11E-05 | 83.213 | .28E-05 | 86.953 |
| 67. | 4566.901 | 4.150 | .16E-05 | 0.00 | .11E-05 | 82.122 | .28E-05 | 86.477 |
| 68. | 4573.047 | 4.656 | .17E-05 | 0.00 | .11E-05 | 81.049 | .28E-05 | 86.014 |
| 69. | 4579.887 | 5.128 | .17E-05 | 0.00 | .11E-05 | 79.996 | .28E-05 | 85.567 |
| 70. | 4587.376 | 5.561 | .17E-05 | 0.00 | .11E-05 | 78.966 | .29E-05 | 85.138 |
| 71. | 4595.458 | 5.950 | .17E-05 | 0.00 | .10E-05 | 77.962 | .29E-05 | 84.726 |
| 72. | 4604.073 | 6.292 | .17E-05 | 0.00 | .10E-05 | 76.986 | .29E-05 | 84.335 |
| 73. | 4613.154 | 6.582 | .17E-05 | 0.00 | .10E-05 | 76.040 | .29E-05 | 83.964 |
| 74. | 4622.627 | 6.814 | .18E-05 | 0.00 | .98E-06 | 75.127 | .29E-05 | 83.615 |
| 75. | 4632.408 | 6.986 | .18E-05 | 0.00 | .95E-06 | 74.249 | .29E-05 | 83.289 |
| 76. | 4642.409 | 7.091 | .18E-05 | 0.00 | .91E-06 | 73.409 | .30E-05 | 82.986 |
| 77. | 4652.532 | 7.124 | .18E-05 | 0.00 | .87E-06 | 72.608 | .30E-05 | 82.705 |
| 78. | 4662.671 | 7.082 | .18E-05 | 0.00 | .83E-06 | 71.850 | .30E-05 | 82.449 |
| 79. | 4672.713 | 6.958 | .19E-05 | 0.00 | .79E-06 | 71.138 | .30E-05 | 82.216 |
| 80. | 4682.536 | 6.749 | .19E-05 | 0.00 | .74E-06 | 70.473 | .31E-05 | 82.007 |
| 81. | 4692.012 | 6.450 | .19E-05 | 0.00 | .68E-06 | 69.860 | .31E-05 | 81.820 |
| 82. | 4701.007 | 6.059 | .19E-05 | 0.00 | .62E-06 | 69.300 | .31E-05 | 81.656 |
| 83. | 4709.383 | 5.574 | .20E-05 | 0.00 | .56E-06 | 68.797 | .31E-05 | 81.514 |
| 84. | 4717.004 | 4.996 | .20E-05 | 0.00 | .49E-06 | 68.353 | .31E-05 | 81.394 |
| 85. | 4723.733 | 4.328 | .20E-05 | 0.00 | .42E-06 | 67.972 | .31E-05 | 81.293 |
| 86. | 4729.442 | 3.577 | .20E-05 | 0.00 | .34E-06 | 67.656 | .32E-05 | 81.213 |
| 87. | 4734.017 | 2.753 | .20E-05 | 0.00 | .26E-06 | 67.407 | .32E-05 | 81.151 |
| 88. | 4737.359 | 1.870 | .20E-05 | 0.00 | .17E-06 | 67.228 | .32E-05 | 81.107 |
| 89. | 4739.396 | .946 | .20E-05 | 0.00 | .87E-07 | 67.120 | .32E-05 | 81.081 |
| 90. | 4740.080 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .32E-05 | 81.073 |
| 91. | 4739.396 | -.946 | .20E-05 | 0.00 | .87E-07 | -112.880 | .32E-05 | 81.081 |
| 92. | 4737.359 | -1.870 | .20E-05 | 0.00 | .17E-06 | -112.772 | .32E-05 | 81.107 |
| 93. | 4734.017 | -2.753 | .20E-05 | 0.00 | .26E-06 | -112.593 | .32E-05 | 81.151 |
| 94. | 4729.442 | -3.577 | .20E-05 | 0.00 | .34E-06 | -112.344 | .32E-05 | 81.213 |
| 95. | 4723.733 | -4.328 | .20E-05 | 0.00 | .42E-06 | -112.028 | .31E-05 | 81.293 |
| 96. | 4717.004 | -4.996 | .20E-05 | 0.00 | .49E-06 | -111.647 | .31E-05 | 81.394 |
| 97. | 4709.383 | -5.574 | .20E-05 | 0.00 | .56E-06 | -111.203 | .31E-05 | 81.514 |
| 98. | 4701.007 | -6.059 | .19E-05 | 0.00 | .62E-06 | -110.700 | .31E-05 | 81.656 |
| 99. | 4692.012 | -6.450 | .19E-05 | 0.00 | .68E-06 | -110.140 | .31E-05 | 81.820 |

111-CUT SILICON

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4682.536 | -6.749 | .19E-05 | 0.00 | .74E-06 | -109.527 | .31E-05 | 82.007 |
| 101. | 4672.713 | -6.958 | .19E-05 | 0.00 | .79E-06 | -108.862 | .30E-05 | 82.216 |
| 102. | 4662.671 | -7.082 | .18E-05 | 0.00 | .83E-06 | -108.150 | .30E-05 | 82.449 |
| 103. | 4652.532 | -7.124 | .18E-05 | 0.00 | .87E-06 | -107.392 | .30E-05 | 82.705 |
| 104. | 4642.409 | -7.091 | .18E-05 | 0.00 | .91E-06 | -106.592 | .30E-05 | 82.986 |
| 105. | 4632.408 | -6.986 | .18E-05 | 0.00 | .95E-06 | -105.751 | .29E-05 | 83.289 |
| 106. | 4622.627 | -6.814 | .18E-05 | 0.00 | .98E-06 | -104.873 | .29E-05 | 83.615 |
| 107. | 4613.154 | -6.582 | .17E-05 | 0.00 | .10E-05 | -103.960 | .29E-05 | 83.964 |
| 108. | 4604.073 | -6.292 | .17E-05 | 0.00 | .10E-05 | -103.014 | .29E-05 | 84.335 |
| 109. | 4595.458 | -5.950 | .17E-05 | 0.00 | .10E-05 | -102.038 | .29E-05 | 84.726 |
| 110. | 4587.376 | -5.561 | .17E-05 | 0.00 | .11E-05 | -101.034 | .29E-05 | 85.138 |
| 111. | 4579.887 | -5.128 | .17E-05 | 0.00 | .11E-05 | -100.004 | .28E-05 | 85.567 |
| 112. | 4573.047 | -4.656 | .17E-05 | 0.00 | .11E-05 | -98.951 | .28E-05 | 86.014 |
| 113. | 4566.901 | -4.150 | .16E-05 | 0.00 | .11E-05 | -97.878 | .28E-05 | 86.477 |
| 114. | 4561.492 | -3.614 | .16E-05 | 0.00 | .11E-05 | -96.787 | .28E-05 | 86.953 |
| 115. | 4556.856 | -3.051 | .16E-05 | 0.00 | .11E-05 | -95.680 | .28E-05 | 87.442 |
| 116. | 4553.023 | -2.467 | .16E-05 | 0.00 | .11E-05 | -94.559 | .28E-05 | 87.941 |
| 117. | 4550.016 | -1.866 | .16E-05 | 0.00 | .12E-05 | -93.429 | .28E-05 | 88.448 |
| 118. | 4547.856 | -1.251 | .16E-05 | 0.00 | .12E-05 | -92.290 | .28E-05 | 88.962 |
| 119. | 4546.555 | -.628 | .16E-05 | 0.00 | .12E-05 | -91.146 | .28E-05 | 89.480 |
| 120. | 4546.116 | 0.000 | .16E-05 | 0.00 | .12E-05 | -90.000 | .28E-05 | 90.000 |
| 121. | 4546.550 | .628 | .16E-05 | 0.00 | .12E-05 | -88.854 | .28E-05 | 90.520 |
| 122. | 4547.852 | 1.251 | .16E-05 | 0.00 | .12E-05 | -87.710 | .28E-05 | 91.038 |
| 123. | 4550.013 | 1.866 | .16E-05 | 0.00 | .12E-05 | -86.571 | .28E-05 | 91.552 |
| 124. | 4553.020 | 2.467 | .16E-05 | 0.00 | .11E-05 | -85.441 | .28E-05 | 92.059 |
| 125. | 4556.854 | 3.051 | .16E-05 | 0.00 | .11E-05 | -84.320 | .28E-05 | 92.558 |
| 126. | 4561.490 | 3.614 | .16E-05 | 0.00 | .11E-05 | -83.213 | .28E-05 | 93.047 |
| 127. | 4566.899 | 4.150 | .16E-05 | 0.00 | .11E-05 | -82.122 | .28E-05 | 93.523 |
| 128. | 4573.045 | 4.656 | .17E-05 | 0.00 | .11E-05 | -81.049 | .28E-05 | 93.986 |
| 129. | 4579.886 | 5.128 | .17E-05 | 0.00 | .11E-05 | -79.996 | .28E-05 | 94.433 |
| 130. | 4587.375 | 5.561 | .17E-05 | 0.00 | .11E-05 | -78.966 | .29E-05 | 94.862 |
| 131. | 4595.457 | 5.950 | .17E-05 | 0.00 | .10E-05 | -77.962 | .29E-05 | 95.274 |
| 132. | 4604.072 | 6.292 | .17E-05 | 0.00 | .10E-05 | -76.986 | .29E-05 | 95.665 |
| 133. | 4613.153 | 6.582 | .17E-05 | 0.00 | .10E-05 | -76.040 | .29E-05 | 96.036 |
| 134. | 4622.626 | 6.814 | .18E-05 | 0.00 | .98E-06 | -75.127 | .29E-05 | 96.385 |
| 135. | 4632.407 | 6.986 | .18E-05 | 0.00 | .95E-06 | -74.249 | .29E-05 | 96.711 |
| 136. | 4642.408 | 7.091 | .18E-05 | 0.00 | .91E-06 | -73.408 | .30E-05 | 97.014 |
| 137. | 4652.531 | 7.124 | .18E-05 | 0.00 | .87E-06 | -72.608 | .30E-05 | 97.295 |
| 138. | 4662.671 | 7.082 | .18E-05 | 0.00 | .83E-06 | -71.850 | .30E-05 | 97.551 |
| 139. | 4672.712 | 6.958 | .19E-05 | 0.00 | .79E-06 | -71.138 | .30E-05 | 97.784 |
| 140. | 4682.535 | 6.749 | .19E-05 | 0.00 | .74E-06 | -70.473 | .31E-05 | 97.994 |
| 141. | 4692.011 | 6.450 | .19E-05 | 0.00 | .68E-06 | -69.860 | .31E-05 | 98.180 |
| 142. | 4701.006 | 6.059 | .19E-05 | 0.00 | .62E-06 | -69.300 | .31E-05 | 98.344 |
| 143. | 4709.383 | 5.574 | .20E-05 | 0.00 | .56E-06 | -68.797 | .31E-05 | 98.486 |
| 144. | 4717.003 | 4.996 | .20E-05 | 0.00 | .49E-06 | -68.353 | .31E-05 | 98.606 |
| 145. | 4723.732 | 4.328 | .20E-05 | 0.00 | .42E-06 | -67.972 | .31E-05 | 98.707 |
| 146. | 4729.442 | 3.577 | .20E-05 | 0.00 | .34E-06 | -67.656 | .32E-05 | 98.787 |
| 147. | 4734.016 | 2.753 | .20E-05 | 0.00 | .26E-06 | -67.407 | .32E-05 | 98.849 |
| 148. | 4737.359 | 1.870 | .20E-05 | 0.00 | .17E-06 | -67.228 | .32E-05 | 98.893 |
| 149. | 4739.395 | .946 | .20E-05 | 0.00 | .87E-07 | -67.120 | .32E-05 | 98.919 |

111-CUT SILICON

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4740.079 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .32E-05 | 98.927 |
| 151. | 4739.395 | -.946 | .20E-05 | 0.00 | .87E-07 | 112.880 | .32E-05 | 98.919 |
| 152. | 4737.359 | -1.870 | .20E-05 | 0.00 | .17E-06 | 112.772 | .32E-05 | 98.893 |
| 153. | 4734.016 | -2.753 | .20E-05 | 0.00 | .26E-06 | 112.593 | .32E-05 | 98.849 |
| 154. | 4729.442 | -3.577 | .20E-05 | 0.00 | .34E-06 | 112.344 | .32E-05 | 98.787 |
| 155. | 4723.732 | -4.328 | .20E-05 | 0.00 | .42E-06 | 112.028 | .31E-05 | 98.707 |
| 156. | 4717.004 | -4.996 | .20E-05 | 0.00 | .49E-06 | 111.647 | .31E-05 | 98.606 |
| 157. | 4709.383 | -5.574 | .20E-05 | 0.00 | .56E-06 | 111.203 | .31E-05 | 98.486 |
| 158. | 4701.006 | -6.059 | .19E-05 | 0.00 | .62E-06 | 110.700 | .31E-05 | 98.344 |
| 159. | 4692.011 | -6.450 | .19E-05 | 0.00 | .68E-06 | 110.140 | .31E-05 | 98.180 |
| 160. | 4682.535 | -6.749 | .19E-05 | 0.00 | .74E-06 | 109.527 | .31E-05 | 97.993 |
| 161. | 4672.713 | -6.958 | .19E-05 | 0.00 | .79E-06 | 108.862 | .30E-05 | 97.784 |
| 162. | 4662.671 | -7.082 | .18E-05 | 0.00 | .83E-06 | 108.150 | .30E-05 | 97.551 |
| 163. | 4652.532 | -7.124 | .18E-05 | 0.00 | .87E-06 | 107.392 | .30E-05 | 97.295 |
| 164. | 4642.409 | -7.091 | .18E-05 | 0.00 | .91E-06 | 106.592 | .30E-05 | 97.014 |
| 165. | 4632.408 | -6.986 | .18E-05 | 0.00 | .95E-06 | 105.751 | .29E-05 | 96.711 |
| 166. | 4622.626 | -6.814 | .18E-05 | 0.00 | .98E-06 | 104.873 | .29E-05 | 96.385 |
| 167. | 4613.154 | -6.582 | .17E-05 | 0.00 | .10E-05 | 103.960 | .29E-05 | 96.036 |
| 168. | 4604.073 | -6.292 | .17E-05 | 0.00 | .10E-05 | 103.014 | .29E-05 | 95.665 |
| 169. | 4595.458 | -5.950 | .17E-05 | 0.00 | .10E-05 | 102.038 | .29E-05 | 95.274 |
| 170. | 4587.375 | -5.561 | .17E-05 | 0.00 | .11E-05 | 101.034 | .29E-05 | 94.862 |
| 171. | 4579.887 | -5.128 | .17E-05 | 0.00 | .11E-05 | 100.004 | .28E-05 | 94.433 |
| 172. | 4573.046 | -4.656 | .17E-05 | 0.00 | .11E-05 | 98.951 | .28E-05 | 93.986 |
| 173. | 4566.900 | -4.150 | .16E-05 | 0.00 | .11E-05 | 97.878 | .28E-05 | 93.523 |
| 174. | 4561.491 | -3.614 | .16E-05 | 0.00 | .11E-05 | 96.787 | .28E-05 | 93.047 |
| 175. | 4556.855 | -3.051 | .16E-05 | 0.00 | .11E-05 | 95.680 | .28E-05 | 92.558 |
| 176. | 4553.021 | -2.467 | .16E-05 | 0.00 | .11E-05 | 94.559 | .28E-05 | 92.059 |
| 177. | 4550.015 | -1.866 | .16E-05 | 0.00 | .12E-05 | 93.429 | .28E-05 | 91.552 |
| 178. | 4547.853 | -1.251 | .16E-05 | 0.00 | .12E-05 | 92.290 | .28E-05 | 91.038 |
| 179. | 4546.551 | -.628 | .16E-05 | 0.00 | .12E-05 | 91.146 | .28E-05 | 90.520 |
| 180. | 4546.116 | 0.000 | .16E-05 | 0.00 | .12E-05 | 90.000 | .28E-05 | 90.000 |

111-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4154.945 | 0.000 | .71E-06 | 0.00 | .92E-06 | -90.000 | .17E-05 | 90.000 |
| 1. | 4156.074 | 1.781 | .72E-06 | 0.00 | .92E-06 | -87.685 | .17E-05 | 91.173 |
| 2. | 4159.452 | 3.546 | .72E-06 | 0.00 | .92E-06 | -85.377 | .17E-05 | 92.338 |
| 3. | 4165.063 | 5.280 | .72E-06 | 0.00 | .92E-06 | -83.082 | .17E-05 | 93.488 |
| 4. | 4172.876 | 6.968 | .73E-06 | 0.00 | .92E-06 | -80.807 | .17E-05 | 94.615 |
| 5. | 4182.851 | 8.597 | .74E-06 | 0.00 | .92E-06 | -78.557 | .17E-05 | 95.713 |
| 6. | 4194.932 | 10.155 | .75E-06 | 0.00 | .92E-06 | -76.339 | .17E-05 | 96.776 |
| 7. | 4209.054 | 11.629 | .76E-06 | 0.00 | .91E-06 | -74.158 | .17E-05 | 97.796 |
| 8. | 4225.141 | 13.011 | .77E-06 | 0.00 | .91E-06 | -72.017 | .17E-05 | 98.770 |
| 9. | 4243.102 | 14.292 | .78E-06 | 0.00 | .91E-06 | -69.922 | .17E-05 | 99.691 |
| 10. | 4262.837 | 15.465 | .80E-06 | 0.00 | .90E-06 | -67.876 | .18E-05 | 100.558 |
| 11. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | -0.000 |
| 12. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 13. | 4331.477 | 18.274 | .85E-06 | 0.00 | .88E-06 | -62.057 | .18E-05 | 102.793 |
| 14. | 4357.033 | 18.955 | .88E-06 | 0.00 | .87E-06 | -60.232 | .18E-05 | 103.411 |
| 15. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 16. | 4411.147 | 19.895 | .92E-06 | 0.00 | .84E-06 | -56.765 | .19E-05 | 104.451 |
| 17. | 4439.303 | 20.138 | .95E-06 | 0.00 | .82E-06 | -55.127 | .19E-05 | 104.873 |
| 18. | 4467.886 | 20.213 | .97E-06 | 0.00 | .79E-06 | -53.556 | .19E-05 | 105.232 |
| 19. | 4496.632 | 20.107 | .10E-05 | 0.00 | .76E-06 | -52.055 | .19E-05 | 105.530 |
| 20. | 4525.241 | 19.799 | .10E-05 | 0.00 | .73E-06 | -50.628 | .20E-05 | 105.768 |
| 21. | 4553.377 | 19.265 | .11E-05 | 0.00 | .69E-06 | -49.281 | .20E-05 | 105.951 |
| 22. | 4580.659 | 18.477 | .11E-05 | 0.00 | .65E-06 | -48.020 | .20E-05 | 106.084 |
| 23. | 4606.653 | 17.399 | .11E-05 | 0.00 | .59E-06 | -46.856 | .21E-05 | 106.171 |
| 24. | 4630.877 | 15.993 | .11E-05 | 0.00 | .53E-06 | -45.798 | .21E-05 | 106.219 |
| 25. | 4652.800 | 14.224 | .12E-05 | 0.00 | .46E-06 | -44.960 | .21E-05 | 106.237 |
| 26. | 4671.853 | 12.063 | .12E-05 | 0.00 | .39E-06 | -44.059 | .21E-05 | 106.233 |
| 27. | 4687.460 | 9.505 | .12E-05 | 0.00 | .30E-06 | -43.411 | .22E-05 | 106.216 |
| 28. | 4699.078 | 6.581 | .12E-05 | 0.00 | .20E-06 | -42.933 | .22E-05 | 106.196 |
| 29. | 4706.253 | 3.370 | .12E-05 | 0.00 | .10E-06 | -42.639 | .22E-05 | 106.181 |
| 30. | 4708.691 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 106.175 |
| 31. | 4706.253 | -3.370 | .12E-05 | 0.00 | .10E-06 | 137.361 | .22E-05 | 106.181 |
| 32. | 4699.078 | -6.581 | .12E-05 | 0.00 | .20E-06 | 137.067 | .22E-05 | 106.196 |
| 33. | 4687.460 | -9.505 | .12E-05 | 0.00 | .30E-06 | 136.589 | .22E-05 | 106.216 |
| 34. | 4671.853 | -12.063 | .12E-05 | 0.00 | .39E-06 | 135.941 | .21E-05 | 106.233 |
| 35. | 4652.800 | -14.224 | .12E-05 | 0.00 | .46E-06 | 135.140 | .21E-05 | 106.237 |
| 36. | 4630.877 | -15.993 | .11E-05 | 0.00 | .53E-06 | 134.202 | .21E-05 | 106.219 |
| 37. | 4606.653 | -17.399 | .11E-05 | 0.00 | .59E-06 | 133.144 | .21E-05 | 106.171 |
| 38. | 4580.658 | -18.477 | .11E-05 | 0.00 | .65E-06 | 131.980 | .20E-05 | 106.084 |
| 39. | 4553.377 | -19.265 | .11E-05 | 0.00 | .69E-06 | 130.719 | .20E-05 | 105.951 |
| 40. | 4525.241 | -19.799 | .10E-05 | 0.00 | .73E-06 | 129.372 | .20E-05 | 105.768 |
| 41. | 4496.632 | -20.107 | .10E-05 | 0.00 | .76E-06 | 127.945 | .19E-05 | 105.530 |
| 42. | 4467.886 | -20.213 | .97E-06 | 0.00 | .79E-06 | 126.444 | .19E-05 | 105.232 |
| 43. | 4439.303 | -20.138 | .95E-06 | 0.00 | .82E-06 | 124.873 | .19E-05 | 104.873 |
| 44. | 4411.146 | -19.895 | .92E-06 | 0.00 | .84E-06 | 123.235 | .19E-05 | 104.451 |
| 45. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 46. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 47. | 4331.477 | -18.274 | .85E-06 | 0.00 | .88E-06 | 117.943 | .18E-05 | 102.793 |
| 48. | 4307.158 | -17.462 | .83E-06 | 0.00 | .89E-06 | 116.059 | .18E-05 | 102.111 |
| 49. | 4284.231 | -16.524 | .82E-06 | 0.00 | .90E-06 | 114.119 | .18E-05 | 101.365 |

111-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4262.837 | -15.465 | .80E-06 | 0.00 | .90E-06 | 112.124 | .18E-05 | 100.558 |
| 51. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 52. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 53. | 4209.054 | -11.629 | .76E-06 | 0.00 | .91E-06 | 105.842 | .17E-05 | 97.796 |
| 54. | 4194.931 | -10.155 | .75E-06 | 0.00 | .92E-06 | 103.661 | .17E-05 | 96.776 |
| 55. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 56. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 57. | 4165.063 | -5.280 | .72E-06 | 0.00 | .92E-06 | 96.918 | .17E-05 | 93.488 |
| 58. | 4159.452 | -3.546 | .72E-06 | 0.00 | .92E-06 | 94.623 | .17E-05 | 92.338 |
| 59. | 4156.074 | -1.781 | .72E-06 | 0.00 | .92E-06 | 92.315 | .17E-05 | 91.173 |
| 60. | 4154.945 | 0.000 | .71E-06 | 0.00 | .92E-06 | 90.000 | .17E-05 | 90.000 |
| 61. | 4156.074 | 1.781 | .72E-06 | 0.00 | .92E-06 | 87.685 | .17E-05 | 88.827 |
| 62. | 4159.452 | 3.546 | .72E-06 | 0.00 | .92E-06 | 85.377 | .17E-05 | 87.662 |
| 63. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 64. | 4172.876 | 6.968 | .73E-06 | 0.00 | .92E-06 | 80.807 | .17E-05 | 85.385 |
| 65. | 4182.851 | 8.597 | .74E-06 | 0.00 | .92E-06 | 78.557 | .17E-05 | 84.287 |
| 66. | 4194.932 | 10.155 | .75E-06 | 0.00 | .92E-06 | 76.339 | .17E-05 | 83.224 |
| 67. | 4209.054 | 11.629 | .76E-06 | 0.00 | .91E-06 | 74.158 | .17E-05 | 82.204 |
| 68. | 4225.141 | 13.011 | .77E-06 | 0.00 | .91E-06 | 72.017 | .17E-05 | 81.230 |
| 69. | 4243.102 | 14.292 | .78E-06 | 0.00 | .91E-06 | 69.922 | .17E-05 | 80.309 |
| 70. | 4262.837 | 15.465 | .80E-06 | 0.00 | .90E-06 | 67.876 | .18E-05 | 79.442 |
| 71. | 4284.231 | 16.524 | .82E-06 | 0.00 | .90E-06 | 65.881 | .18E-05 | 78.635 |
| 72. | 4307.158 | 17.462 | .83E-06 | 0.00 | .89E-06 | 63.941 | .18E-05 | 77.889 |
| 73. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 74. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 75. | 4383.652 | 19.498 | .90E-06 | 0.00 | .85E-06 | 58.467 | .18E-05 | 76.036 |
| 76. | 4411.146 | 19.895 | .92E-06 | 0.00 | .84E-06 | 56.765 | .19E-05 | 75.549 |
| 77. | 4439.303 | 20.138 | .95E-06 | 0.00 | .82E-06 | 55.127 | .19E-05 | 75.127 |
| 78. | 4467.886 | 20.213 | .97E-06 | 0.00 | .79E-06 | 53.556 | .19E-05 | 74.768 |
| 79. | 4496.632 | 20.107 | .10E-05 | 0.00 | .76E-06 | 52.055 | .19E-05 | 74.470 |
| 80. | 4525.241 | 19.799 | .10E-05 | 0.00 | .73E-06 | 50.628 | .20E-05 | 74.232 |
| 81. | 4553.377 | 19.265 | .11E-05 | 0.00 | .69E-06 | 49.281 | .20E-05 | 74.049 |
| 82. | 4580.658 | 18.477 | .11E-05 | 0.00 | .65E-06 | 48.020 | .20E-05 | 73.916 |
| 83. | 4606.653 | 17.399 | .11E-05 | 0.00 | .59E-06 | 46.856 | .21E-05 | 73.829 |
| 84. | 4630.877 | 15.993 | .11E-05 | 0.00 | .53E-06 | 45.798 | .21E-05 | 73.781 |
| 85. | 4652.800 | 14.224 | .12E-05 | 0.00 | .46E-06 | 44.860 | .21E-05 | 73.763 |
| 86. | 4671.853 | 12.063 | .12E-05 | 0.00 | .39E-06 | 44.059 | .21E-05 | 73.767 |
| 87. | 4687.460 | 9.505 | .12E-05 | 0.00 | .30E-06 | 43.411 | .22E-05 | 73.784 |
| 88. | 4699.078 | 6.581 | .12E-05 | 0.00 | .20E-06 | 42.933 | .22E-05 | 73.804 |
| 89. | 4706.253 | 3.370 | .12E-05 | 0.00 | .10E-06 | 42.639 | .22E-05 | 73.819 |
| 90. | 4708.681 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 73.825 |
| 91. | 4706.253 | -3.370 | .12E-05 | 0.00 | .10E-06 | -137.361 | .22E-05 | 73.819 |
| 92. | 4699.078 | -6.581 | .12E-05 | 0.00 | .20E-06 | -137.067 | .22E-05 | 73.804 |
| 93. | 4687.460 | -9.505 | .12E-05 | 0.00 | .30E-06 | -136.589 | .22E-05 | 73.784 |
| 94. | 4671.853 | -12.063 | .12E-05 | 0.00 | .39E-06 | -135.941 | .21E-05 | 73.767 |
| 95. | 4652.800 | -14.224 | .12E-05 | 0.00 | .46E-06 | -135.140 | .21E-05 | 73.763 |
| 96. | 4630.877 | -15.993 | .11E-05 | 0.00 | .53E-06 | -134.202 | .21E-05 | 73.781 |
| 97. | 4606.653 | -17.399 | .11E-05 | 0.00 | .59E-06 | -133.144 | .21E-05 | 73.829 |
| 98. | 4580.658 | -18.477 | .11E-05 | 0.00 | .65E-06 | -131.980 | .20E-05 | 73.916 |
| 99. | 4553.377 | -19.265 | .11E-05 | 0.00 | .69E-06 | -130.719 | .20E-05 | 74.049 |

111-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4525.241 | -19.799 | .10E-05 | 0.00 | .73E-06 | -129.372 | .20E-05 | 74.232 |
| 101. | 4496.632 | -20.107 | .10E-05 | 0.00 | .76E-06 | -127.945 | .19E-05 | 74.470 |
| 102. | 4467.886 | -20.213 | .97E-06 | 0.00 | .79E-06 | -126.444 | .19E-05 | 74.768 |
| 103. | 4439.303 | -20.138 | .95E-06 | 0.00 | .82E-06 | -124.873 | .19E-05 | 75.127 |
| 104. | 4411.146 | -19.895 | .92E-06 | 0.00 | .84E-06 | -123.235 | .19E-05 | 75.549 |
| 105. | 4383.652 | -19.498 | .90E-06 | 0.00 | .85E-06 | -121.533 | .18E-05 | 76.036 |
| 106. | 4357.033 | -18.955 | .88E-06 | 0.00 | .87E-06 | -119.768 | .18E-05 | 76.589 |
| 107. | 4331.477 | -18.274 | .85E-06 | 0.00 | .88E-06 | -117.943 | .18E-05 | 77.207 |
| 108. | 4307.158 | -17.462 | .83E-06 | 0.00 | .89E-06 | -116.059 | .18E-05 | 77.889 |
| 109. | 4284.231 | -16.524 | .82E-06 | 0.00 | .90E-06 | -114.119 | .18E-05 | 78.635 |
| 110. | 4262.837 | -15.465 | .80E-06 | 0.00 | .90E-06 | -112.124 | .18E-05 | 79.442 |
| 111. | 4243.102 | -14.292 | .78E-06 | 0.00 | .91E-06 | -110.078 | .17E-05 | 80.309 |
| 112. | 4225.141 | -13.011 | .77E-06 | 0.00 | .91E-06 | -107.983 | .17E-05 | 81.230 |
| 113. | 4209.054 | -11.629 | .76E-05 | 0.00 | .91E-06 | -105.842 | .17E-05 | 82.204 |
| 114. | 4194.932 | -10.155 | .75E-06 | 0.00 | .92E-06 | -103.661 | .17E-05 | 83.224 |
| 115. | 4182.851 | -8.597 | .74E-06 | 0.00 | .92E-06 | -101.443 | .17E-05 | 84.287 |
| 116. | 4172.876 | -6.968 | .73E-06 | 0.00 | .92E-06 | -99.193 | .17E-05 | 85.385 |
| 117. | 4165.063 | -5.280 | .72E-06 | 0.00 | .92E-06 | -96.918 | .17E-05 | 86.512 |
| 118. | 4159.452 | -3.546 | .72E-06 | 0.00 | .92E-06 | -94.623 | .17E-05 | 87.662 |
| 119. | 4156.074 | -1.781 | .72E-06 | 0.00 | .92E-06 | -92.315 | .17E-05 | 88.827 |
| 120. | 4154.945 | 0.000 | .71E-06 | 0.00 | .92E-06 | -90.000 | .17E-05 | 90.000 |
| 121. | 4156.074 | 1.781 | .72E-06 | 0.00 | .92E-06 | -87.685 | .17E-05 | 91.173 |
| 122. | 4159.452 | 3.546 | .72E-06 | 0.00 | .92E-06 | -85.377 | .17E-05 | 92.338 |
| 123. | 4165.063 | 5.280 | .72E-06 | 0.00 | .92E-06 | -83.082 | .17E-05 | 93.488 |
| 124. | 4172.876 | 6.968 | .73E-06 | 0.00 | .92E-06 | -80.807 | .17E-05 | 94.615 |
| 125. | 4182.850 | 8.597 | .74E-06 | 0.00 | .92E-06 | -78.557 | .17E-05 | 95.713 |
| 126. | 4194.931 | 10.155 | .75E-06 | 0.00 | .92E-06 | -76.339 | .17E-05 | 96.776 |
| 127. | 4209.054 | 11.629 | .76E-06 | 0.00 | .91E-06 | -74.158 | .17E-05 | 97.796 |
| 128. | 4225.140 | 13.011 | .77E-06 | 0.00 | .91E-06 | -72.017 | .17E-05 | 98.770 |
| 129. | 4243.102 | 14.292 | .78E-06 | 0.00 | .91E-06 | -69.922 | .17E-05 | 99.691 |
| 130. | 4262.837 | 15.465 | .80E-06 | 0.00 | .90E-06 | -67.876 | .18E-05 | 100.558 |
| 131. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 132. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 133. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 134. | 4357.032 | 18.955 | .88E-06 | 0.00 | .87E-06 | -60.232 | .18E-05 | 103.411 |
| 135. | 4383.652 | 19.498 | .90E-06 | 0.00 | .85E-06 | -58.467 | .18E-05 | 103.964 |
| 136. | 4411.146 | 19.895 | .92E-06 | 0.00 | .84E-06 | -56.765 | .19E-05 | 104.451 |
| 137. | 4439.303 | 20.138 | .95E-06 | 0.00 | .82E-06 | -55.127 | .19E-05 | 104.873 |
| 138. | 4467.886 | 20.213 | .97E-06 | 0.00 | .79E-06 | -53.556 | .19E-05 | 105.232 |
| 139. | 4496.632 | 20.107 | .10E-05 | 0.00 | .76E-06 | -52.055 | .19E-05 | 105.530 |
| 140. | 4525.241 | 19.799 | .10E-05 | 0.00 | .73E-06 | -50.628 | .20E-05 | 105.768 |
| 141. | 4553.377 | 19.265 | .11E-05 | 0.00 | .69E-06 | -49.281 | .20E-05 | 105.951 |
| 142. | 4580.658 | 18.477 | .11E-05 | 0.00 | .65E-06 | -48.020 | .20E-05 | 106.084 |
| 143. | 4606.653 | 17.399 | .11E-05 | 0.00 | .59E-06 | -46.856 | .21E-05 | 106.171 |
| 144. | 4630.877 | 15.993 | .11E-05 | 0.00 | .53E-06 | -45.798 | .21E-05 | 106.219 |
| 145. | 4652.800 | 14.224 | .12E-05 | 0.00 | .46E-06 | -44.860 | .21E-05 | 106.237 |
| 146. | 4671.853 | 12.063 | .12E-05 | 0.00 | .39E-06 | -44.059 | .21E-05 | 106.233 |
| 147. | 4687.460 | 9.505 | .12E-05 | 0.00 | .30E-06 | -43.411 | .22E-05 | 106.216 |
| 148. | 4699.078 | 6.581 | .12E-05 | 0.00 | .20E-06 | -42.933 | .22E-05 | 106.196 |
| 149. | 4706.253 | 3.370 | .12E-05 | 0.00 | .10E-06 | -42.639 | .22E-05 | 106.181 |

111-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4708.681 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 106.175 |
| 151. | 4706.253 | -3.370 | .12E-05 | 0.00 | .10E-06 | 137.361 | .22E-05 | 106.181 |
| 152. | 4699.078 | -6.581 | .12E-05 | 0.00 | .20E-06 | 137.067 | .22E-05 | 106.196 |
| 153. | 4687.460 | -9.505 | .12E-05 | 0.00 | .30E-06 | 136.589 | .22E-05 | 106.216 |
| 154. | 4671.853 | -12.063 | .12E-05 | 0.00 | .39E-06 | 135.941 | .21E-05 | 106.233 |
| 155. | 4652.800 | -14.224 | .12E-05 | 0.00 | .46E-06 | 135.140 | .21E-05 | 106.237 |
| 156. | 4630.877 | -15.993 | .11E-05 | 0.00 | .53E-06 | 134.202 | .21E-05 | 106.219 |
| 157. | 4606.653 | -17.399 | .11E-05 | 0.00 | .59E-06 | 133.144 | .21E-05 | 106.171 |
| 158. | 4580.659 | -18.477 | .11E-05 | 0.00 | .65E-06 | 131.980 | .20E-05 | 106.084 |
| 159. | 4553.377 | -19.265 | .11E-05 | 0.00 | .69E-06 | 130.719 | .20E-05 | 105.951 |
| 160. | 4525.241 | -19.799 | .10E-05 | 0.00 | .73E-06 | 129.372 | .20E-05 | 105.768 |
| 161. | 4496.632 | -20.107 | .10E-05 | 0.00 | .76E-06 | 127.945 | .19E-05 | 105.530 |
| 162. | 4467.896 | -20.213 | .97E-06 | 0.00 | .79E-06 | 126.444 | .19E-05 | 105.232 |
| 163. | 4439.303 | -20.138 | .95E-06 | 0.00 | .82E-06 | 124.873 | .19E-05 | 104.873 |
| 164. | 4411.147 | -19.895 | .92E-06 | 0.00 | .84E-06 | 123.235 | .19E-05 | 104.451 |
| 165. | 4383.653 | -19.498 | .90E-06 | 0.00 | .85E-06 | 121.533 | .18E-05 | 103.964 |
| 166. | 4357.033 | -18.955 | .88E-06 | 0.00 | .87E-06 | 119.768 | .18E-05 | 103.411 |
| 167. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 168. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 169. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 170. | 4262.837 | -15.465 | .80E-06 | 0.00 | .90E-06 | 112.124 | .18E-05 | 100.558 |
| 171. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 172. | 9999.999 | .999 | .99E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 99.999 |
| 173. | 4209.054 | -11.629 | .76E-06 | 0.00 | .91E-06 | 105.842 | .17E-05 | 97.796 |
| 174. | 4194.932 | -10.155 | .75E-06 | 0.00 | .92E-06 | 103.661 | .17E-05 | 96.776 |
| 175. | 4182.851 | -8.597 | .74E-06 | 0.00 | .92E-06 | 101.443 | .17E-05 | 95.713 |
| 176. | 4172.876 | -6.968 | .73E-06 | 0.00 | .92E-06 | 99.193 | .17E-05 | 94.615 |
| 177. | 4165.063 | -5.280 | .72E-06 | 0.00 | .92E-06 | 96.918 | .17E-05 | 93.488 |
| 178. | 4159.452 | -3.546 | .72E-06 | 0.00 | .92E-06 | 94.623 | .17E-05 | 92.338 |
| 179. | 4156.074 | -1.781 | .72E-06 | 0.00 | .92E-06 | 92.315 | .17E-05 | 91.173 |
| 180. | 4154.945 | 0.000 | .71E-06 | 0.00 | .92E-06 | 90.000 | .17E-05 | 90.000 |

110-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4120.542 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 90.000 |
| 1. | 4121.341 | 1.273 | .98E-06 | 0.00 | .14E-07 | 0.000 | .22E-05 | 90.000 |
| 2. | 4123.736 | 2.538 | .98E-06 | 0.00 | .29E-07 | 0.000 | .22E-05 | 90.000 |
| 3. | 4127.718 | 3.789 | .98E-06 | 0.00 | .44E-07 | 0.000 | .22E-05 | 90.000 |
| 4. | 4133.272 | 5.016 | .98E-06 | 0.00 | .59E-07 | 0.000 | .22E-05 | 90.000 |
| 5. | 4140.375 | 6.215 | .99E-06 | 0.00 | .74E-07 | 0.000 | .22E-05 | 90.000 |
| 6. | 4149.000 | 7.377 | .99E-06 | 0.00 | .90E-07 | 0.000 | .22E-05 | 90.000 |
| 7. | 4159.113 | 8.497 | .99E-06 | 0.00 | .11E-06 | 0.000 | .22E-05 | 90.000 |
| 8. | 4170.676 | 9.570 | .99E-06 | 0.00 | .12E-06 | 0.000 | .22E-05 | 90.000 |
| 9. | 4183.642 | 10.589 | .10E-05 | 0.00 | .14E-06 | 0.000 | .22E-05 | 90.000 |
| 10. | 4197.959 | 11.551 | .10E-05 | 0.00 | .16E-06 | 0.000 | .22E-05 | 90.000 |
| 11. | 4213.571 | 12.451 | .10E-05 | 0.00 | .18E-06 | 0.000 | .22E-05 | 90.000 |
| 12. | 4230.413 | 13.286 | .10E-05 | 0.00 | .19E-06 | 0.000 | .22E-05 | 90.000 |
| 13. | 4248.415 | 14.051 | .10E-05 | 0.00 | .22E-06 | 0.000 | .22E-05 | 90.000 |
| 14. | 4267.502 | 14.745 | .10E-05 | 0.00 | .24E-06 | 0.000 | .22E-05 | 90.000 |
| 15. | 4287.590 | 15.363 | .10E-05 | 0.00 | .26E-06 | 0.000 | .23E-05 | 90.000 |
| 16. | 4308.590 | 15.902 | .10E-05 | 0.00 | .28E-06 | 0.000 | .23E-05 | 90.000 |
| 17. | 4330.405 | 16.360 | .10E-05 | 0.00 | .31E-06 | 0.000 | .23E-05 | 90.000 |
| 18. | 4352.929 | 16.733 | .10E-05 | 0.00 | .34E-06 | 0.000 | .23E-05 | 90.000 |
| 19. | 4376.047 | 17.017 | .11E-05 | 0.00 | .37E-06 | 0.000 | .23E-05 | 90.000 |
| 20. | 4399.636 | 17.206 | .11E-05 | 0.00 | .40E-06 | 0.000 | .23E-05 | 90.000 |
| 21. | 4423.558 | 17.296 | .11E-05 | 0.00 | .43E-06 | 0.000 | .23E-05 | 90.000 |
| 22. | 4447.664 | 17.278 | .11E-05 | 0.00 | .46E-06 | 0.000 | .23E-05 | 90.000 |
| 23. | 4471.789 | 17.143 | .11E-05 | 0.00 | .50E-06 | 0.000 | .23E-05 | 90.000 |
| 24. | 4495.749 | 16.881 | .11E-05 | 0.00 | .54E-06 | 0.000 | .23E-05 | 90.000 |
| 25. | 4519.339 | 16.476 | .11E-05 | 0.00 | .58E-06 | 0.000 | .24E-05 | 90.000 |
| 26. | 4542.326 | 15.913 | .11E-05 | 0.00 | .62E-06 | 0.000 | .24E-05 | 90.000 |
| 27. | 4564.450 | 15.168 | .11E-05 | 0.00 | .67E-06 | 0.000 | .24E-05 | 90.000 |
| 28. | 4585.415 | 14.218 | .12E-05 | 0.00 | .71E-06 | 0.000 | .24E-05 | 90.000 |
| 29. | 4604.886 | 13.032 | .12E-05 | 0.00 | .75E-06 | 0.000 | .24E-05 | 90.000 |
| 30. | 4622.488 | 11.581 | .12E-05 | 0.00 | .80E-06 | 0.000 | .24E-05 | 90.000 |
| 31. | 4637.807 | 9.835 | .12E-05 | 0.00 | .84E-06 | 0.000 | .23E-05 | 90.000 |
| 32. | 4650.404 | 7.778 | .12E-05 | 0.00 | .87E-06 | 0.000 | .23E-05 | 90.000 |
| 33. | 4659.836 | 5.415 | .12E-05 | 0.00 | .89E-06 | 0.000 | .23E-05 | 90.000 |
| 34. | 4665.701 | 2.791 | .12E-05 | 0.00 | .89E-06 | 0.000 | .23E-05 | 90.000 |
| 35. | 4667.701 | .006 | .12E-05 | 0.00 | .87E-06 | 0.000 | .22E-05 | 90.000 |
| 36. | 4665.714 | -2.787 | .11E-05 | 0.00 | .83E-06 | 0.000 | .21E-05 | 90.000 |
| 37. | 4659.855 | -5.401 | .11E-05 | 0.00 | .77E-06 | 0.000 | .21E-05 | 90.000 |
| 38. | 4650.504 | -7.656 | .11E-05 | 0.00 | .67E-06 | 0.000 | .20E-05 | 90.000 |
| 39. | 4638.271 | -9.417 | .10E-05 | 0.00 | .56E-06 | 0.000 | .20E-05 | 90.000 |
| 40. | 4623.926 | -10.615 | .99E-06 | 0.00 | .44E-06 | 0.000 | .19E-05 | 90.000 |
| 41. | 4608.382 | -11.241 | .96E-06 | 0.00 | .31E-06 | 0.000 | .18E-05 | 90.000 |
| 42. | 4592.219 | -11.329 | .92E-06 | 0.00 | .18E-06 | 0.000 | .18E-05 | 90.000 |
| 43. | 4576.417 | -10.939 | .89E-06 | 0.00 | .61E-07 | 0.000 | .17E-05 | 90.000 |
| 44. | 4561.539 | -10.135 | .86E-06 | 0.00 | .46E-07 | -180.000 | .17E-05 | 90.000 |
| 45. | 4548.111 | -8.986 | .83E-06 | 0.00 | .14E-06 | -180.000 | .17E-05 | 90.000 |
| 46. | 4536.556 | -7.556 | .81E-06 | 0.00 | .21E-06 | -180.000 | .16E-05 | 90.000 |
| 47. | 4527.201 | -5.902 | .79E-06 | 0.00 | .27E-06 | -180.000 | .16E-05 | 90.000 |
| 48. | 4520.291 | -4.078 | .78E-06 | 0.00 | .31E-06 | 180.000 | .16E-05 | 90.000 |
| 49. | 4516.000 | -2.134 | .78E-06 | 0.00 | .34E-06 | -180.000 | .16E-05 | 90.000 |

110-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4514.445 | -.118 | .77E-06 | 0.00 | .35E-06 | -180.000 | .16E-05 | 90.000 |
| 51. | 4515.689 | 1.929 | .78E-06 | 0.00 | .35E-06 | -180.000 | .16E-05 | 90.000 |
| 52. | 4519.752 | 3.965 | .79E-06 | 0.00 | .33E-06 | -180.000 | .16E-05 | 90.000 |
| 53. | 4526.610 | 5.954 | .80E-06 | 0.00 | .31E-06 | 180.000 | .16E-05 | 90.000 |
| 54. | 4536.204 | 7.863 | .82E-06 | 0.00 | .26E-06 | -180.000 | .16E-05 | 90.000 |
| 55. | 4548.441 | 9.665 | .85E-06 | 0.00 | .21E-06 | -180.000 | .17E-05 | 90.000 |
| 56. | 4563.198 | 11.338 | .88E-06 | 0.00 | .15E-06 | -180.000 | .17E-05 | 90.000 |
| 57. | 4580.326 | 12.865 | .92E-06 | 0.00 | .86E-07 | -180.000 | .17E-05 | 90.000 |
| 58. | 4599.654 | 14.235 | .96E-06 | 0.00 | .15E-07 | -180.000 | .17E-05 | 90.000 |
| 59. | 4620.991 | 15.440 | .10E-05 | 0.00 | .59E-07 | 0.000 | .17E-05 | 90.000 |
| 60. | 4644.136 | 16.480 | .11E-05 | 0.00 | .14E-06 | 0.000 | .18E-05 | 90.000 |
| 61. | 4668.876 | 17.354 | .11E-05 | 0.00 | .21E-06 | 0.000 | .18E-05 | 90.000 |
| 62. | 4694.991 | 18.066 | .12E-05 | 0.00 | .28E-06 | 0.000 | .18E-05 | 90.000 |
| 63. | 4722.261 | 18.622 | .12E-05 | 0.00 | .35E-06 | 0.000 | .18E-05 | 90.000 |
| 64. | 4750.463 | 19.028 | .13E-05 | 0.00 | .41E-06 | 0.000 | .19E-05 | 90.000 |
| 65. | 4779.376 | 19.290 | .13E-05 | 0.00 | .47E-06 | 0.000 | .19E-05 | 90.000 |
| 66. | 4808.781 | 19.415 | .14E-05 | 0.00 | .52E-06 | 0.000 | .19E-05 | 90.000 |
| 67. | 4838.467 | 19.411 | .15E-05 | 0.00 | .56E-06 | 0.000 | .20E-05 | 90.000 |
| 68. | 4868.226 | 19.284 | .15E-05 | 0.00 | .59E-06 | 0.000 | .20E-05 | 90.000 |
| 69. | 4897.860 | 19.043 | .16E-05 | 0.00 | .62E-06 | 0.000 | .20E-05 | 90.000 |
| 70. | 4927.178 | 18.695 | .16E-05 | 0.00 | .64E-06 | 0.000 | .20E-05 | 90.000 |
| 71. | 4956.002 | 18.249 | .17E-05 | 0.00 | .65E-06 | 0.000 | .21E-05 | 90.000 |
| 72. | 4984.165 | 17.711 | .17E-05 | 0.00 | .65E-06 | 0.000 | .21E-05 | 90.000 |
| 73. | 5011.512 | 17.089 | .18E-05 | 0.00 | .65E-06 | 0.000 | .21E-05 | 90.000 |
| 74. | 5037.901 | 16.392 | .18E-05 | 0.00 | .64E-06 | 0.000 | .22E-05 | 90.000 |
| 75. | 5063.203 | 15.627 | .19E-05 | 0.00 | .63E-06 | 0.000 | .22E-05 | 90.000 |
| 76. | 5087.302 | 14.802 | .19E-05 | 0.00 | .61E-06 | 0.000 | .22E-05 | 90.000 |
| 77. | 5110.096 | 13.923 | .20E-05 | 0.00 | .58E-06 | 0.000 | .22E-05 | 90.000 |
| 78. | 5131.494 | 12.997 | .20E-05 | 0.00 | .55E-06 | 0.000 | .23E-05 | 90.000 |
| 79. | 5151.416 | 12.030 | .20E-05 | 0.00 | .52E-06 | 0.000 | .23E-05 | 90.000 |
| 80. | 5169.794 | 11.029 | .21E-05 | 0.00 | .48E-06 | 0.000 | .23E-05 | 90.000 |
| 81. | 5186.569 | 9.997 | .21E-05 | 0.00 | .44E-06 | 0.000 | .23E-05 | 90.000 |
| 82. | 5201.692 | 8.941 | .21E-05 | 0.00 | .40E-06 | 0.000 | .23E-05 | 90.000 |
| 83. | 5215.122 | 7.863 | .21E-05 | 0.00 | .36E-06 | 0.000 | .23E-05 | 90.000 |
| 84. | 5226.823 | 6.768 | .21E-05 | 0.00 | .31E-06 | 0.000 | .24E-05 | 90.000 |
| 85. | 5236.767 | 5.660 | .22E-05 | 0.00 | .26E-06 | 0.000 | .24E-05 | 90.000 |
| 86. | 5244.931 | 4.540 | .22E-05 | 0.00 | .21E-06 | 0.000 | .24E-05 | 90.000 |
| 87. | 5251.299 | 3.412 | .22E-05 | 0.00 | .16E-06 | 0.000 | .24E-05 | 90.000 |
| 88. | 5255.856 | 2.278 | .22E-05 | 0.00 | .11E-06 | 0.000 | .24E-05 | 90.000 |
| 89. | 5258.594 | 1.140 | .22E-05 | 0.00 | .53E-07 | 0.000 | .24E-05 | 90.000 |
| 90. | 5259.507 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 91. | 5258.594 | -1.140 | .22E-05 | 0.00 | .53E-07 | 180.000 | .24E-05 | 90.000 |
| 92. | 5255.856 | -2.278 | .22E-05 | 0.00 | .11E-06 | 180.000 | .24E-05 | 90.000 |
| 93. | 5251.299 | -3.412 | .22E-05 | 0.00 | .16E-06 | 180.000 | .24E-05 | 90.000 |
| 94. | 5244.931 | -4.540 | .22E-05 | 0.00 | .21E-06 | 180.000 | .24E-05 | 90.000 |
| 95. | 5236.767 | -5.660 | .22E-05 | 0.00 | .26E-06 | 180.000 | .24E-05 | 90.000 |
| 96. | 5226.823 | -6.768 | .21E-05 | 0.00 | .31E-06 | -180.000 | .24E-05 | 90.000 |
| 97. | 5215.122 | -7.863 | .21E-05 | 0.00 | .36E-06 | -180.000 | .23E-05 | 90.000 |
| 98. | 5201.692 | -8.941 | .21E-05 | 0.00 | .40E-06 | 180.000 | .23E-05 | 90.000 |
| 99. | 5186.569 | -9.997 | .21E-05 | 0.00 | .44E-06 | -180.000 | .23E-05 | 90.000 |

110-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 5169.794 | -11.029 | .21E-05 | 0.00 | .48E-06 | 180.000 | .23E-05 | 90.000 |
| 101. | 5151.416 | -12.030 | .20E-05 | 0.00 | .52E-06 | 180.000 | .23E-05 | 90.000 |
| 102. | 5131.494 | -12.997 | .20E-05 | 0.00 | .55E-06 | 180.000 | .23E-05 | 90.000 |
| 103. | 5110.096 | -13.923 | .20E-05 | 0.00 | .58E-06 | -180.000 | .22E-05 | 90.000 |
| 104. | 5087.302 | -14.802 | .19E-05 | 0.00 | .61E-06 | 180.000 | .22E-05 | 90.000 |
| 105. | 5063.203 | -15.627 | .19E-05 | 0.00 | .63E-06 | 180.000 | .22E-05 | 90.000 |
| 106. | 5037.901 | -16.392 | .18E-05 | 0.00 | .64E-06 | -180.000 | .22E-05 | 90.000 |
| 107. | 5011.512 | -17.089 | .18E-05 | 0.00 | .65E-06 | -180.000 | .21E-05 | 90.000 |
| 108. | 4984.165 | -17.711 | .17E-05 | 0.00 | .65E-06 | 180.000 | .21E-05 | 90.000 |
| 109. | 4956.002 | -18.249 | .17E-05 | 0.00 | .65E-06 | -180.000 | .21E-05 | 90.000 |
| 110. | 4927.178 | -18.695 | .16E-05 | 0.00 | .64E-06 | -180.000 | .20E-05 | 90.000 |
| 111. | 4897.860 | -19.043 | .16E-05 | 0.00 | .62E-06 | -180.000 | .20E-05 | 90.000 |
| 112. | 4868.226 | -19.284 | .15E-05 | 0.00 | .59E-06 | 180.000 | .20E-05 | 90.000 |
| 113. | 4838.467 | -19.411 | .15E-05 | 0.00 | .56E-06 | 180.000 | .20E-05 | 90.000 |
| 114. | 4808.781 | -19.415 | .14E-05 | 0.00 | .52E-06 | 180.000 | .19E-05 | 90.000 |
| 115. | 4779.376 | -19.290 | .13E-05 | 0.00 | .47E-06 | 180.000 | .19E-05 | 90.000 |
| 116. | 4750.463 | -19.028 | .13E-05 | 0.00 | .41E-06 | 180.000 | .19E-05 | 90.000 |
| 117. | 4722.261 | -18.622 | .12E-05 | 0.00 | .35E-06 | 180.000 | .18E-05 | 90.000 |
| 118. | 4694.991 | -18.066 | .12E-05 | 0.00 | .28E-06 | 180.000 | .18E-05 | 90.000 |
| 119. | 4668.876 | -17.354 | .11E-05 | 0.00 | .21E-06 | 180.000 | .18E-05 | 90.000 |
| 120. | 4644.136 | -16.480 | .11E-05 | 0.00 | .14E-06 | -180.000 | .18E-05 | 90.000 |
| 121. | 4620.991 | -15.440 | .10E-05 | 0.00 | .59E-07 | -180.000 | .17E-05 | 90.000 |
| 122. | 4599.654 | -14.235 | .96E-06 | 0.00 | .15E-07 | 0.000 | .17E-05 | 90.000 |
| 123. | 4580.326 | -12.865 | .92E-06 | 0.00 | .86E-07 | 0.000 | .17E-05 | 90.000 |
| 124. | 4563.198 | -11.338 | .88E-06 | 0.00 | .15E-06 | 0.000 | .17E-05 | 90.000 |
| 125. | 4548.441 | -9.665 | .85E-06 | 0.00 | .21E-06 | 0.000 | .17E-05 | 90.000 |
| 126. | 4536.204 | -7.863 | .82E-06 | 0.00 | .26E-06 | 0.000 | .16E-05 | 90.000 |
| 127. | 4526.610 | -5.954 | .80E-06 | 0.00 | .30E-06 | 0.000 | .16E-05 | 90.000 |
| 128. | 4519.752 | -3.965 | .79E-06 | 0.00 | .33E-06 | 0.000 | .16E-05 | 90.000 |
| 129. | 4515.689 | -1.929 | .78E-06 | 0.00 | .35E-06 | 0.000 | .16E-05 | 90.000 |
| 130. | 4514.445 | .118 | .77E-06 | 0.00 | .35E-06 | 0.000 | .16E-05 | 90.000 |
| 131. | 4516.000 | 2.134 | .78E-06 | 0.00 | .34E-06 | 0.000 | .16E-05 | 90.000 |
| 132. | 4520.291 | 4.078 | .78E-06 | 0.00 | .31E-06 | 0.000 | .16E-05 | 90.000 |
| 133. | 4527.201 | 5.902 | .79E-06 | 0.00 | .27E-06 | 0.000 | .16E-05 | 90.000 |
| 134. | 4536.556 | 7.556 | .81E-06 | 0.00 | .21E-06 | 0.000 | .16E-05 | 90.000 |
| 135. | 4548.111 | 8.986 | .83E-06 | 0.00 | .14E-06 | 0.000 | .17E-05 | 90.000 |
| 136. | 4561.539 | 10.135 | .86E-06 | 0.00 | .46E-07 | 0.000 | .17E-05 | 90.000 |
| 137. | 4576.417 | 10.939 | .89E-06 | 0.00 | .61E-07 | -180.000 | .17E-05 | 90.000 |
| 138. | 4592.219 | 11.329 | .92E-06 | 0.00 | .18E-06 | 180.000 | .18E-05 | 90.000 |
| 139. | 4608.302 | 11.241 | .96E-06 | 0.00 | .31E-06 | 180.000 | .18E-05 | 90.000 |
| 140. | 4623.926 | 10.615 | .99E-06 | 0.00 | .44E-06 | -180.000 | .19E-05 | 90.000 |
| 141. | 4638.271 | 9.417 | .10E-05 | 0.00 | .56E-06 | -180.000 | .20E-05 | 90.000 |
| 142. | 4650.504 | 7.656 | .11E-05 | 0.00 | .67E-06 | -180.000 | .20E-05 | 90.000 |
| 143. | 4659.855 | 5.401 | .11E-05 | 0.00 | .77E-06 | 180.000 | .21E-05 | 90.000 |
| 144. | 4665.714 | 2.787 | .11E-05 | 0.00 | .83E-06 | 180.000 | .21E-05 | 90.000 |
| 145. | 4667.701 | -.006 | .12E-05 | 0.00 | .87E-06 | 180.000 | .22E-05 | 90.000 |
| 146. | 4665.701 | -2.791 | .12E-05 | 0.00 | .89E-06 | 180.000 | .23E-05 | 90.000 |
| 147. | 4659.836 | -5.415 | .12E-05 | 0.00 | .89E-06 | -180.000 | .23E-05 | 90.000 |
| 148. | 4650.404 | -7.778 | .12E-05 | 0.00 | .87E-06 | 180.000 | .23E-05 | 90.000 |
| 149. | 4637.807 | -9.835 | .12E-05 | 0.00 | .84E-06 | -180.000 | .23E-05 | 90.000 |

110-CUT SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4622.488 | -11.581 | .12E-05 | 0.00 | .80E-06 | 180.000 | .24E-05 | 90.000 |
| 151. | 4604.886 | -13.032 | .12E-05 | 0.00 | .75E-06 | -180.000 | .24E-05 | 90.000 |
| 152. | 4585.415 | -14.218 | .12E-05 | 0.00 | .71E-06 | -180.000 | .24E-05 | 90.000 |
| 153. | 4564.450 | -15.168 | .11E-05 | 0.00 | .67E-06 | 180.000 | .24E-05 | 90.000 |
| 154. | 4542.326 | -15.913 | .11E-05 | 0.00 | .62E-06 | 180.000 | .24E-05 | 90.000 |
| 155. | 4519.339 | -16.476 | .11E-05 | 0.00 | .58E-06 | 180.000 | .24E-05 | 90.000 |
| 156. | 4495.749 | -16.881 | .11E-05 | 0.00 | .54E-06 | 180.000 | .23E-05 | 90.000 |
| 157. | 4471.789 | -17.143 | .11E-05 | 0.00 | .50E-06 | 180.000 | .23E-05 | 90.000 |
| 158. | 4447.664 | -17.278 | .11E-05 | 0.00 | .46E-06 | 180.000 | .23E-05 | 90.000 |
| 159. | 4423.558 | -17.296 | .11E-05 | 0.00 | .43E-06 | 180.000 | .23E-05 | 90.000 |
| 160. | 4399.636 | -17.206 | .11E-05 | 0.00 | .40E-06 | 180.000 | .23E-05 | 90.000 |
| 161. | 4376.047 | -17.017 | .11E-05 | 0.00 | .37E-06 | 180.000 | .23E-05 | 90.000 |
| 162. | 4352.929 | -16.733 | .10E-05 | 0.00 | .34E-06 | 180.000 | .23E-05 | 90.000 |
| 163. | 4330.405 | -16.360 | .10E-05 | 0.00 | .31E-06 | 180.000 | .23E-05 | 90.000 |
| 164. | 4308.590 | -15.902 | .10E-05 | 0.00 | .28E-06 | 180.000 | .23E-05 | 90.000 |
| 165. | 4287.590 | -15.363 | .10E-05 | 0.00 | .26E-06 | 180.000 | .23E-05 | 90.000 |
| 166. | 4267.502 | -14.745 | .10E-05 | 0.00 | .24E-06 | 180.000 | .22E-05 | 90.000 |
| 167. | 4248.415 | -14.051 | .10E-05 | 0.00 | .22E-06 | 180.000 | .22E-05 | 90.000 |
| 168. | 4230.413 | -13.286 | .10E-05 | 0.00 | .19E-06 | 180.000 | .22E-05 | 90.000 |
| 169. | 4213.571 | -12.451 | .10E-05 | 0.00 | .18E-06 | 180.000 | .22E-05 | 90.000 |
| 170. | 4197.959 | -11.551 | .10E-05 | 0.00 | .16E-06 | 180.000 | .22E-05 | 90.000 |
| 171. | 4183.642 | -10.589 | .10E-05 | 0.00 | .14E-06 | 180.000 | .22E-05 | 90.000 |
| 172. | 4170.676 | -9.570 | .99E-06 | 0.00 | .12E-06 | 180.000 | .22E-05 | 90.000 |
| 173. | 4159.113 | -8.497 | .99E-06 | 0.00 | .11E-06 | 180.000 | .22E-05 | 90.000 |
| 174. | 4149.000 | -7.377 | .99E-06 | 0.00 | .90E-07 | 180.000 | .22E-05 | 90.000 |
| 175. | 4140.375 | -6.215 | .99E-06 | 0.00 | .74E-07 | 180.000 | .22E-05 | 90.000 |
| 176. | 4133.272 | -5.016 | .98E-06 | 0.00 | .59E-07 | 180.000 | .22E-05 | 90.000 |
| 177. | 4127.718 | -3.789 | .98E-06 | 0.00 | .44E-07 | 180.000 | .22E-05 | 90.000 |
| 178. | 4123.736 | -2.538 | .98E-06 | 0.00 | .29E-07 | 180.000 | .22E-05 | 90.000 |
| 179. | 4121.341 | -1.273 | .98E-06 | 0.00 | .14E-07 | 180.000 | .22E-05 | 90.000 |
| 180. | 4120.542 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 90.000 |

X-AXIS BOULE SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4911.250 | 0.000 | .23E-05 | 0.00 | .85E-08 | 90.000 | .26E-05 | 90.000 |
| 2. | 4912.425 | 0.000 | .23E-05 | 0.00 | .17E-07 | 90.000 | .26E-05 | 90.000 |
| 3. | 4914.377 | 0.000 | .23E-05 | 0.00 | .25E-07 | 90.000 | .26E-05 | 90.000 |
| 4. | 4917.099 | 0.000 | .23E-05 | 0.00 | .33E-07 | 90.000 | .26E-05 | 90.000 |
| 5. | 4920.580 | 0.000 | .23E-05 | 0.00 | .41E-07 | 90.000 | .26E-05 | 90.000 |
| 6. | 4924.807 | 0.000 | .23E-05 | 0.00 | .49E-07 | 90.000 | .26E-05 | 90.000 |
| 7. | 4929.762 | 0.000 | .23E-05 | 0.00 | .56E-07 | 90.000 | .26E-05 | 90.000 |
| 8. | 4935.427 | 0.000 | .23E-05 | 0.00 | .63E-07 | 90.000 | .25E-05 | 90.000 |
| 9. | 4941.778 | 0.000 | .23E-05 | 0.00 | .69E-07 | 90.000 | .25E-05 | 90.000 |
| 10. | 4948.789 | 0.000 | .23E-05 | 0.00 | .75E-07 | 90.000 | .25E-05 | 90.000 |
| 11. | 4956.433 | 0.000 | .23E-05 | 0.00 | .81E-07 | 90.000 | .25E-05 | 90.000 |
| 12. | 4964.677 | 0.000 | .23E-05 | 0.00 | .86E-07 | 90.000 | .25E-05 | 90.000 |
| 13. | 4973.489 | 0.000 | .23E-05 | 0.00 | .90E-07 | 90.000 | .25E-05 | 90.000 |
| 14. | 4982.831 | 0.000 | .23E-05 | 0.00 | .94E-07 | 90.000 | .25E-05 | 90.000 |
| 15. | 4992.664 | 0.000 | .23E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 16. | 5002.947 | 0.000 | .23E-05 | 0.00 | .99E-07 | 90.000 | .25E-05 | 90.000 |
| 17. | 5013.636 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 18. | 5024.684 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 19. | 5036.043 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 20. | 5047.664 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 21. | 5059.493 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 22. | 5071.477 | 0.000 | .23E-05 | 0.00 | .99E-07 | 90.000 | .25E-05 | 90.000 |
| 23. | 5083.561 | 0.000 | .23E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 24. | 5095.688 | 0.000 | .23E-05 | 0.00 | .94E-07 | 90.000 | .25E-05 | 90.000 |
| 25. | 5107.800 | 0.000 | .23E-05 | 0.00 | .91E-07 | 90.000 | .25E-05 | 90.000 |
| 26. | 5119.839 | 0.000 | .22E-05 | 0.00 | .87E-07 | 90.000 | .24E-05 | 90.000 |
| 27. | 5131.746 | 0.000 | .22E-05 | 0.00 | .83E-07 | 90.000 | .24E-05 | 90.000 |
| 28. | 5143.460 | 0.000 | .22E-05 | 0.00 | .79E-07 | 90.000 | .24E-05 | 90.000 |
| 29. | 5154.922 | 0.000 | .22E-05 | 0.00 | .74E-07 | 90.000 | .24E-05 | 90.000 |
| 30. | 5166.071 | 0.000 | .22E-05 | 0.00 | .69E-07 | 90.000 | .24E-05 | 90.000 |
| 31. | 5176.848 | 0.000 | .22E-05 | 0.00 | .64E-07 | 90.000 | .24E-05 | 90.000 |
| 32. | 5187.194 | 0.000 | .22E-05 | 0.00 | .58E-07 | 90.000 | .24E-05 | 90.000 |
| 33. | 5197.051 | 0.000 | .22E-05 | 0.00 | .53E-07 | 90.000 | .24E-05 | 90.000 |
| 34. | 5206.363 | 0.000 | .22E-05 | 0.00 | .48E-07 | 90.000 | .24E-05 | 90.000 |
| 35. | 5215.075 | 0.000 | .22E-05 | 0.00 | .43E-07 | 90.000 | .24E-05 | 90.000 |
| 36. | 5223.136 | 0.000 | .22E-05 | 0.00 | .38E-07 | 90.000 | .24E-05 | 90.000 |
| 37. | 5230.494 | 0.000 | .22E-05 | 0.00 | .33E-07 | 90.000 | .24E-05 | 90.000 |
| 38. | 5237.106 | 0.000 | .22E-05 | 0.00 | .29E-07 | 90.000 | .24E-05 | 90.000 |
| 39. | 5242.927 | 0.000 | .22E-05 | 0.00 | .24E-07 | 90.000 | .24E-05 | 90.000 |
| 40. | 5247.921 | 0.000 | .22E-05 | 0.00 | .20E-07 | 90.000 | .24E-05 | 90.000 |
| 41. | 5252.053 | 0.000 | .22E-05 | 0.00 | .15E-07 | 90.000 | .24E-05 | 90.000 |
| 42. | 5255.298 | 0.000 | .22E-05 | 0.00 | .12E-07 | 90.000 | .24E-05 | 90.000 |
| 43. | 5257.631 | 0.000 | .22E-05 | 0.00 | .76E-08 | 90.000 | .24E-05 | 90.000 |
| 44. | 5259.037 | 0.000 | .22E-05 | 0.00 | .38E-08 | 90.000 | .24E-05 | 90.000 |
| 45. | 5259.507 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 46. | 5259.037 | 0.000 | .22E-05 | 0.00 | .38E-08 | -90.000 | .24E-05 | 90.000 |
| 47. | 5257.631 | 0.000 | .22E-05 | 0.00 | .76E-08 | -90.000 | .24E-05 | 90.000 |
| 48. | 5255.298 | 0.000 | .22E-05 | 0.00 | .12E-07 | -90.000 | .24E-05 | 90.000 |
| 49. | 5252.053 | 0.000 | .22E-05 | 0.00 | .15E-07 | -90.000 | .24E-05 | 90.000 |

X-AXIS BOULE SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 5247.921 | 0.000 | .22E-05 | 0.00 | .20E-07 | -90.000 | .24E-05 | 90.000 |
| 51. | 5242.927 | 0.000 | .22E-05 | 0.00 | .24E-07 | -90.000 | .24E-05 | 90.000 |
| 52. | 5237.106 | 0.000 | .22E-05 | 0.00 | .29E-07 | -90.000 | .24E-05 | 90.000 |
| 53. | 5230.494 | 0.000 | .22E-05 | 0.00 | .33E-07 | -90.000 | .24E-05 | 90.000 |
| 54. | 5223.136 | 0.000 | .22E-05 | 0.00 | .38E-07 | -90.000 | .24E-05 | 90.000 |
| 55. | 5215.075 | 0.000 | .22E-05 | 0.00 | .43E-07 | -90.000 | .24E-05 | 90.000 |
| 56. | 5206.363 | 0.000 | .22E-05 | 0.00 | .48E-07 | -90.000 | .24E-05 | 90.000 |
| 57. | 5197.051 | 0.000 | .22E-05 | 0.00 | .53E-07 | -90.000 | .24E-05 | 90.000 |
| 58. | 5187.194 | 0.000 | .22E-05 | 0.00 | .58E-07 | -90.000 | .24E-05 | 90.000 |
| 59. | 5176.848 | 0.000 | .22E-05 | 0.00 | .64E-07 | -90.000 | .24E-05 | 90.000 |
| 60. | 5166.071 | 0.000 | .22E-05 | 0.00 | .69E-07 | -90.000 | .24E-05 | 90.000 |
| 61. | 5154.922 | 0.000 | .22E-05 | 0.00 | .74E-07 | -90.000 | .24E-05 | 90.000 |
| 62. | 5143.460 | 0.000 | .22E-05 | 0.00 | .79E-07 | -90.000 | .24E-05 | 90.000 |
| 63. | 5131.746 | 0.000 | .22E-05 | 0.00 | .83E-07 | -90.000 | .24E-05 | 90.000 |
| 64. | 5119.839 | 0.000 | .22E-05 | 0.00 | .87E-07 | -90.000 | .24E-05 | 90.000 |
| 65. | 5107.800 | 0.000 | .23E-05 | 0.00 | .91E-07 | -90.000 | .25E-05 | 90.000 |
| 66. | 5095.688 | 0.000 | .23E-05 | 0.00 | .94E-07 | -90.000 | .25E-05 | 90.000 |
| 67. | 5083.561 | 0.000 | .23E-05 | 0.00 | .97E-07 | -90.000 | .25E-05 | 90.000 |
| 68. | 5071.477 | 0.000 | .23E-05 | 0.00 | .99E-07 | -90.000 | .25E-05 | 90.000 |
| 69. | 5059.493 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 70. | 5047.664 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 71. | 5036.043 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 72. | 5024.684 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 73. | 5013.636 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 74. | 5002.947 | 0.000 | .23E-05 | 0.00 | .99E-07 | -90.000 | .25E-05 | 90.000 |
| 75. | 4992.664 | 0.000 | .23E-05 | 0.00 | .97E-07 | -90.000 | .25E-05 | 90.000 |
| 76. | 4982.831 | 0.000 | .23E-05 | 0.00 | .94E-07 | -90.000 | .25E-05 | 90.000 |
| 77. | 4973.489 | 0.000 | .23E-05 | 0.00 | .90E-07 | -90.000 | .25E-05 | 90.000 |
| 78. | 4964.677 | 0.000 | .23E-05 | 0.00 | .86E-07 | -90.000 | .25E-05 | 90.000 |
| 79. | 4956.433 | 0.000 | .23E-05 | 0.00 | .81E-07 | -90.000 | .25E-05 | 90.000 |
| 80. | 4948.789 | 0.000 | .23E-05 | 0.00 | .75E-07 | -90.000 | .25E-05 | 90.000 |
| 81. | 4941.778 | 0.000 | .23E-05 | 0.00 | .69E-07 | -90.000 | .25E-05 | 90.000 |
| 82. | 4935.427 | 0.000 | .23E-05 | 0.00 | .63E-07 | -90.000 | .25E-05 | 90.000 |
| 83. | 4929.762 | 0.000 | .23E-05 | 0.00 | .56E-07 | -90.000 | .26E-05 | 90.000 |
| 84. | 4924.807 | 0.000 | .23E-05 | 0.00 | .49E-07 | -90.000 | .26E-05 | 90.000 |
| 85. | 4920.580 | 0.000 | .23E-05 | 0.00 | .41E-07 | -90.000 | .26E-05 | 90.000 |
| 86. | 4917.099 | 0.000 | .23E-05 | 0.00 | .33E-07 | -90.000 | .26E-05 | 90.000 |
| 87. | 4914.377 | 0.000 | .23E-05 | 0.00 | .25E-07 | -90.000 | .26E-05 | 90.000 |
| 88. | 4912.425 | 0.000 | .23E-05 | 0.00 | .17E-07 | -90.000 | .26E-05 | 90.000 |
| 89. | 4911.250 | 0.000 | .23E-05 | 0.00 | .85E-08 | -90.000 | .26E-05 | 90.000 |
| 90. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 91. | 4911.250 | 0.000 | .23E-05 | 0.00 | .85E-08 | 90.000 | .26E-05 | 90.000 |
| 92. | 4912.425 | 0.000 | .23E-05 | 0.00 | .17E-07 | 90.000 | .26E-05 | 90.000 |
| 93. | 4914.377 | 0.000 | .23E-05 | 0.00 | .25E-07 | 90.000 | .26E-05 | 90.000 |
| 94. | 4917.099 | 0.000 | .23E-05 | 0.00 | .33E-07 | 90.000 | .26E-05 | 90.000 |
| 95. | 4920.580 | 0.000 | .23E-05 | 0.00 | .41E-07 | 90.000 | .26E-05 | 90.000 |
| 96. | 4924.807 | 0.000 | .23E-05 | 0.00 | .49E-07 | 90.000 | .26E-05 | 90.000 |
| 97. | 4929.762 | 0.000 | .23E-05 | 0.00 | .56E-07 | 90.000 | .26E-05 | 90.000 |
| 98. | 4935.427 | 0.000 | .23E-05 | 0.00 | .63E-07 | 90.000 | .25E-05 | 90.000 |
| 99. | 4941.778 | 0.000 | .23E-05 | 0.00 | .69E-07 | 90.000 | .25E-05 | 90.000 |

X-AXIS BOULE SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4948.789 | 0.000 | .23E-05 | 0.00 | .75E-07 | 90.000 | .25E-05 | 90.000 |
| 101. | 4956.433 | 0.000 | .23E-05 | 0.00 | .81E-07 | 90.000 | .25E-05 | 90.000 |
| 102. | 4964.677 | 0.000 | .23E-05 | 0.00 | .86E-07 | 90.000 | .25E-05 | 90.000 |
| 103. | 4973.489 | 0.000 | .23E-05 | 0.00 | .90E-07 | 90.000 | .25E-05 | 90.000 |
| 104. | 4982.831 | 0.000 | .23E-05 | 0.00 | .94E-07 | 90.000 | .25E-05 | 90.000 |
| 105. | 4992.664 | 0.000 | .23E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 106. | 5002.947 | 0.000 | .23E-05 | 0.00 | .99E-07 | 90.000 | .25E-05 | 90.000 |
| 107. | 5013.636 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 108. | 5024.684 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 109. | 5036.043 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 110. | 5047.664 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 111. | 5059.493 | 0.000 | .23E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 112. | 5071.477 | 0.000 | .23E-05 | 0.00 | .99E-07 | 90.000 | .25E-05 | 90.000 |
| 113. | 5083.561 | 0.000 | .23E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 114. | 5095.688 | 0.000 | .23E-05 | 0.00 | .94E-07 | 90.000 | .25E-05 | 90.000 |
| 115. | 5107.800 | 0.000 | .23E-05 | 0.00 | .91E-07 | 90.000 | .25E-05 | 90.000 |
| 116. | 5119.839 | 0.000 | .22E-05 | 0.00 | .87E-07 | 90.000 | .24E-05 | 90.000 |
| 117. | 5131.746 | 0.000 | .22E-05 | 0.00 | .83E-07 | 90.000 | .24E-05 | 90.000 |
| 118. | 5143.460 | 0.000 | .22E-05 | 0.00 | .79E-07 | 90.000 | .24E-05 | 90.000 |
| 119. | 5154.922 | 0.000 | .22E-05 | 0.00 | .74E-07 | 90.000 | .24E-05 | 90.000 |
| 120. | 5166.071 | 0.000 | .22E-05 | 0.00 | .69E-07 | 90.000 | .24E-05 | 90.000 |
| 121. | 5176.848 | 0.000 | .22E-05 | 0.00 | .64E-07 | 90.000 | .24E-05 | 90.000 |
| 122. | 5187.194 | 0.000 | .22E-05 | 0.00 | .58E-07 | 90.000 | .24E-05 | 90.000 |
| 123. | 5197.051 | 0.000 | .22E-05 | 0.00 | .53E-07 | 90.000 | .24E-05 | 90.000 |
| 124. | 5206.363 | 0.000 | .22E-05 | 0.00 | .48E-07 | 90.000 | .24E-05 | 90.000 |
| 125. | 5215.075 | 0.000 | .22E-05 | 0.00 | .43E-07 | 90.000 | .24E-05 | 90.000 |
| 126. | 5223.136 | 0.000 | .22E-05 | 0.00 | .38E-07 | 90.000 | .24E-05 | 90.000 |
| 127. | 5230.494 | 0.000 | .22E-05 | 0.00 | .33E-07 | 90.000 | .24E-05 | 90.000 |
| 128. | 5237.106 | 0.000 | .22E-05 | 0.00 | .29E-07 | 90.000 | .24E-05 | 90.000 |
| 129. | 5242.927 | 0.000 | .22E-05 | 0.00 | .24E-07 | 90.000 | .24E-05 | 90.000 |
| 130. | 5247.921 | 0.000 | .22E-05 | 0.00 | .20E-07 | 90.000 | .24E-05 | 90.000 |
| 131. | 5252.053 | 0.000 | .22E-05 | 0.00 | .15E-07 | 90.000 | .24E-05 | 90.000 |
| 132. | 5255.298 | 0.000 | .22E-05 | 0.00 | .12E-07 | 90.000 | .24E-05 | 90.000 |
| 133. | 5257.631 | 0.000 | .22E-05 | 0.00 | .76E-08 | 90.000 | .24E-05 | 90.000 |
| 134. | 5259.037 | 0.000 | .22E-05 | 0.00 | .38E-08 | 90.000 | .24E-05 | 90.000 |
| 135. | 5259.507 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .24E-05 | 90.000 |
| 136. | 5259.037 | 0.000 | .22E-05 | 0.00 | .38E-08 | -90.000 | .24E-05 | 90.000 |
| 137. | 5257.631 | 0.000 | .22E-05 | 0.00 | .76E-08 | -90.000 | .24E-05 | 90.000 |
| 138. | 5255.298 | 0.000 | .22E-05 | 0.00 | .12E-07 | -90.000 | .24E-05 | 90.000 |
| 139. | 5252.053 | 0.000 | .22E-05 | 0.00 | .15E-07 | -90.000 | .24E-05 | 90.000 |
| 140. | 5247.921 | 0.000 | .22E-05 | 0.00 | .20E-07 | -90.000 | .24E-05 | 90.000 |
| 141. | 5242.927 | 0.000 | .22E-05 | 0.00 | .24E-07 | -90.000 | .24E-05 | 90.000 |
| 142. | 5237.106 | 0.000 | .22E-05 | 0.00 | .29E-07 | -90.000 | .24E-05 | 90.000 |
| 143. | 5230.494 | 0.000 | .22E-05 | 0.00 | .33E-07 | -90.000 | .24E-05 | 90.000 |
| 144. | 5223.136 | 0.000 | .22E-05 | 0.00 | .38E-07 | -90.000 | .24E-05 | 90.000 |
| 145. | 5215.075 | 0.000 | .22E-05 | 0.00 | .43E-07 | -90.000 | .24E-05 | 90.000 |
| 146. | 5206.363 | 0.000 | .22E-05 | 0.00 | .48E-07 | -90.000 | .24E-05 | 90.000 |
| 147. | 5197.051 | 0.000 | .22E-05 | 0.00 | .53E-07 | -90.000 | .24E-05 | 90.000 |
| 148. | 5187.194 | 0.000 | .22E-05 | 0.00 | .58E-07 | -90.000 | .24E-05 | 90.000 |
| 149. | 5176.848 | 0.000 | .22E-05 | 0.00 | .64E-07 | -90.000 | .24E-05 | 90.000 |

X-AXIS BOULE SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 5166.071 | 0.000 | .22E-05 | 0.00 | .69E-07 | -90.000 | .24E-05 | 90.000 |
| 151. | 5154.922 | 0.000 | .22E-05 | 0.00 | .74E-07 | -90.000 | .24E-05 | 90.000 |
| 152. | 5143.460 | 0.000 | .22E-05 | 0.00 | .79E-07 | -90.000 | .24E-05 | 90.000 |
| 153. | 5131.746 | 0.000 | .22E-05 | 0.00 | .83E-07 | -90.000 | .24E-05 | 90.000 |
| 154. | 5119.839 | 0.000 | .22E-05 | 0.00 | .87E-07 | -90.000 | .24E-05 | 90.000 |
| 155. | 5107.800 | 0.000 | .23E-05 | 0.00 | .91E-07 | -90.000 | .25E-05 | 90.000 |
| 156. | 5095.688 | 0.000 | .23E-05 | 0.00 | .94E-07 | -90.000 | .25E-05 | 90.000 |
| 157. | 5083.561 | 0.000 | .23E-05 | 0.00 | .97E-07 | -90.000 | .25E-05 | 90.000 |
| 158. | 5071.477 | 0.000 | .23E-05 | 0.00 | .99E-07 | -90.000 | .25E-05 | 90.000 |
| 159. | 5059.493 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 160. | 5047.664 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 161. | 5036.043 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 162. | 5024.684 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 163. | 5013.636 | 0.000 | .23E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 164. | 5002.947 | 0.000 | .23E-05 | 0.00 | .99E-07 | -90.000 | .25E-05 | 90.000 |
| 165. | 4992.664 | 0.000 | .23E-05 | 0.00 | .97E-07 | -90.000 | .25E-05 | 90.000 |
| 166. | 4982.831 | 0.000 | .23E-05 | 0.00 | .94E-07 | -90.000 | .25E-05 | 90.000 |
| 167. | 4973.489 | 0.000 | .23E-05 | 0.00 | .90E-07 | -90.000 | .25E-05 | 90.000 |
| 168. | 4964.677 | 0.000 | .23E-05 | 0.00 | .86E-07 | -90.000 | .25E-05 | 90.000 |
| 169. | 4956.433 | 0.000 | .23E-05 | 0.00 | .81E-07 | -90.000 | .25E-05 | 90.000 |
| 170. | 4948.789 | 0.000 | .23E-05 | 0.00 | .75E-07 | -90.000 | .25E-05 | 90.000 |
| 171. | 4941.778 | 0.000 | .23E-05 | 0.00 | .69E-07 | -90.000 | .25E-05 | 90.000 |
| 172. | 4935.427 | 0.000 | .23E-05 | 0.00 | .63E-07 | -90.000 | .25E-05 | 90.000 |
| 173. | 4929.762 | 0.000 | .23E-05 | 0.00 | .56E-07 | -90.000 | .26E-05 | 90.000 |
| 174. | 4924.807 | 0.000 | .23E-05 | 0.00 | .49E-07 | -90.000 | .26E-05 | 90.000 |
| 175. | 4920.580 | 0.000 | .23E-05 | 0.00 | .41E-07 | -90.000 | .26E-05 | 90.000 |
| 176. | 4917.099 | 0.000 | .23E-05 | 0.00 | .33E-07 | -90.000 | .26E-05 | 90.000 |
| 177. | 4914.377 | 0.000 | .23E-05 | 0.00 | .25E-07 | -90.000 | .26E-05 | 90.000 |
| 178. | 4912.425 | 0.000 | .23E-05 | 0.00 | .17E-07 | -90.000 | .26E-05 | 90.000 |
| 179. | 4911.250 | 0.000 | .23E-05 | 0.00 | .85E-08 | -90.000 | .26E-05 | 90.000 |
| 180. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

X-AXIS CYLINDER SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4907.938 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 92.864 |
| 2. | 4899.349 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .25E-05 | 95.659 |
| 3. | 4885.572 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 98.323 |
| 4. | 4867.301 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 100.811 |
| 5. | 4845.330 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .25E-05 | 103.094 |
| 6. | 4820.452 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .24E-05 | 105.160 |
| 7. | 4793.398 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 107.005 |
| 8. | 4764.806 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 108.636 |
| 9. | 4735.209 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .24E-05 | 110.064 |
| 10. | 4705.042 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 111.300 |
| 11. | 4674.658 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 112.358 |
| 12. | 4644.334 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 113.252 |
| 13. | 4614.291 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 113.993 |
| 14. | 4584.703 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 114.592 |
| 15. | 4555.704 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 115.060 |
| 16. | 4527.400 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.404 |
| 17. | 4499.874 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.632 |
| 18. | 4473.188 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.752 |
| 19. | 4447.390 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.767 |
| 20. | 4422.518 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.684 |
| 21. | 4398.598 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.507 |
| 22. | 4375.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.238 |
| 23. | 4353.690 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 114.882 |
| 24. | 4332.724 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 114.441 |
| 25. | 4312.760 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 113.918 |
| 26. | 4293.800 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 113.314 |
| 27. | 4275.845 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 112.632 |
| 28. | 4258.893 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 111.873 |
| 29. | 4242.943 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 111.040 |
| 30. | 4227.991 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 110.135 |
| 31. | 4214.032 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 109.160 |
| 32. | 4201.063 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 108.117 |
| 33. | 4189.078 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 107.008 |
| 34. | 4178.074 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 105.836 |
| 35. | 4168.045 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 104.606 |
| 36. | 4158.986 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 103.319 |
| 37. | 4150.894 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 101.980 |
| 38. | 4143.764 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 100.593 |
| 39. | 4137.593 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 99.163 |
| 40. | 4132.377 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 97.696 |
| 41. | 4128.113 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 96.196 |
| 42. | 4124.799 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 94.671 |
| 43. | 4122.433 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 93.125 |
| 44. | 4121.014 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 91.566 |
| 45. | 4120.542 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 90.000 |
| 46. | 4121.014 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 88.434 |
| 47. | 4122.433 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 86.875 |
| 48. | 4124.799 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 85.329 |
| 49. | 4128.113 | 0.000 | .99E-05 | 0.00 | 0. | 0.000 | .22E-05 | 83.804 |

X-AXIS CYLINDER SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4132.377 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 82.304 |
| 51. | 4137.593 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 80.837 |
| 52. | 4143.764 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 79.407 |
| 53. | 4150.894 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 78.020 |
| 54. | 4158.986 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 76.681 |
| 55. | 4168.045 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 75.394 |
| 56. | 4178.074 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 74.164 |
| 57. | 4189.078 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 72.992 |
| 58. | 4201.063 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 71.883 |
| 59. | 4214.032 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 70.840 |
| 60. | 4227.991 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 69.865 |
| 61. | 4242.943 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 68.960 |
| 62. | 4258.893 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 68.127 |
| 63. | 4275.845 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 67.368 |
| 64. | 4293.800 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 66.686 |
| 65. | 4312.760 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 66.082 |
| 66. | 4332.724 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 65.559 |
| 67. | 4353.690 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 65.118 |
| 68. | 4375.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.762 |
| 69. | 4398.598 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.493 |
| 70. | 4422.518 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.316 |
| 71. | 4447.390 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.233 |
| 72. | 4473.188 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.248 |
| 73. | 4499.874 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.368 |
| 74. | 4527.400 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.596 |
| 75. | 4555.704 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 64.940 |
| 76. | 4584.703 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 65.408 |
| 77. | 4614.291 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 66.007 |
| 78. | 4587.541 | 0.000 | .10E-04 | 0.00 | 0. | 0.000 | .10E-04 | 0.000 |
| 79. | 4674.658 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 67.642 |
| 80. | 4705.042 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 68.700 |
| 81. | 4735.209 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .24E-05 | 69.936 |
| 82. | 4764.806 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 71.364 |
| 83. | 4793.398 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 72.995 |
| 84. | 4820.452 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .24E-05 | 74.840 |
| 85. | 4845.330 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .25E-05 | 76.906 |
| 86. | 4867.301 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 79.189 |
| 87. | 4885.572 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 81.677 |
| 88. | 4899.349 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .25E-05 | 84.341 |
| 89. | 4907.938 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 87.136 |
| 90. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 91. | 4907.938 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 92.864 |
| 92. | 4899.349 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .25E-05 | 95.659 |
| 93. | 4885.572 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 98.323 |
| 94. | 4867.301 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 100.811 |
| 95. | 4845.330 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .25E-05 | 103.094 |
| 96. | 4820.452 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .24E-05 | 105.160 |
| 97. | 4793.398 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 107.005 |
| 98. | 4764.806 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 108.636 |
| 99. | 4735.209 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .24E-05 | 110.064 |

X-AXIS CYLINDER SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4705.042 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 111.300 |
| 101. | 4674.658 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 112.358 |
| 102. | 4644.334 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 113.252 |
| 103. | 4614.291 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 113.993 |
| 104. | 4584.703 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 114.592 |
| 105. | 4555.704 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 115.060 |
| 106. | 4527.400 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.404 |
| 107. | 4499.874 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.632 |
| 108. | 4473.188 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.752 |
| 109. | 4447.390 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.767 |
| 110. | 4422.518 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.684 |
| 111. | 4398.598 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.507 |
| 112. | 4375.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 115.238 |
| 113. | 4353.690 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 114.882 |
| 114. | 4332.724 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 114.441 |
| 115. | 4312.760 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 113.918 |
| 116. | 4293.800 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 113.314 |
| 117. | 4275.845 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 112.632 |
| 118. | 4258.893 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 111.873 |
| 119. | 4242.943 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 111.040 |
| 120. | 4227.991 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 110.135 |
| 121. | 4214.032 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 109.160 |
| 122. | 4201.063 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 108.117 |
| 123. | 4189.078 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 107.008 |
| 124. | 4178.074 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 105.836 |
| 125. | 4168.045 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 104.606 |
| 126. | 4158.986 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 103.319 |
| 127. | 4150.894 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 101.980 |
| 128. | 4143.764 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 100.593 |
| 129. | 4137.593 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 99.163 |
| 130. | 4132.377 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 97.696 |
| 131. | 4128.113 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 96.196 |
| 132. | 4124.799 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 94.671 |
| 133. | 4122.433 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 93.125 |
| 134. | 4121.014 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 91.566 |
| 135. | 4120.542 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 90.000 |
| 136. | 4121.014 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 88.434 |
| 137. | 4122.433 | 0.000 | .98E-06 | 0.00 | 0. | 0.000 | .22E-05 | 86.875 |
| 138. | 4124.799 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 85.329 |
| 139. | 4128.113 | 0.000 | .99E-06 | 0.00 | 0. | 0.000 | .22E-05 | 83.804 |
| 140. | 4132.377 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 82.304 |
| 141. | 4137.593 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 80.837 |
| 142. | 4143.764 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 79.407 |
| 143. | 4150.894 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 78.020 |
| 144. | 4158.986 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 76.681 |
| 145. | 4168.045 | 0.000 | .10E-05 | 0.00 | 0. | 0.000 | .22E-05 | 75.394 |
| 146. | 4178.074 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 74.164 |
| 147. | 4189.078 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 72.992 |
| 148. | 4201.063 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 71.883 |
| 149. | 4214.032 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 70.840 |

X-AXIS CYLINDER SPINEL

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4227.991 | 0.000 | .11E-05 | 0.00 | 0. | 0.000 | .22E-05 | 69.865 |
| 151. | 4242.943 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 68.960 |
| 152. | 4258.893 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 68.127 |
| 153. | 4275.845 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 67.368 |
| 154. | 4293.800 | 0.000 | .12E-05 | 0.00 | 0. | 0.000 | .22E-05 | 66.686 |
| 155. | 4312.760 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 66.082 |
| 156. | 4332.724 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 65.559 |
| 157. | 4353.690 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 65.118 |
| 158. | 4375.651 | 0.000 | .13E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.762 |
| 159. | 4398.598 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.493 |
| 160. | 4422.518 | 0.000 | .14E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.316 |
| 161. | 4447.390 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.233 |
| 162. | 4473.188 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.248 |
| 163. | 4499.874 | 0.000 | .15E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.368 |
| 164. | 4527.400 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .22E-05 | 64.596 |
| 165. | 4555.704 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 64.940 |
| 166. | 4584.703 | 0.000 | .16E-05 | 0.00 | 0. | 0.000 | .23E-05 | 65.408 |
| 167. | 4614.291 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .23E-05 | 66.007 |
| 168. | 4587.541 | 0.000 | .10E-04 | 0.00 | 0. | 0.000 | .10E-04 | 0.000 |
| 169. | 4674.658 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 67.642 |
| 170. | 4705.042 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .23E-05 | 68.700 |
| 171. | 4735.209 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .24E-05 | 69.936 |
| 172. | 4764.806 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 71.364 |
| 173. | 4793.398 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .24E-05 | 72.995 |
| 174. | 4820.452 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .24E-05 | 74.840 |
| 175. | 4845.330 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .25E-05 | 76.906 |
| 176. | 4867.301 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 79.189 |
| 177. | 4885.572 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .25E-05 | 81.677 |
| 178. | 4899.349 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .25E-05 | 84.341 |
| 179. | 4907.938 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 87.136 |
| 180. | 4910.858 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1950.933 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 90.000 | 0. | 0.000 | 1950.933 | 0.000 | 0.00000 |
| 1. | 1950.996 | 0.000 | .32E-05 | 0.00 | .87E-07 | 90.000 | .57E-05 | 90.000 | .763E+02 | 0.000 | 1950.995 | 0.000 | 0.00000 |
| 2. | 1951.185 | 0.000 | .32E-05 | 0.00 | .17E-06 | 90.000 | .57E-05 | 90.000 | .152E+03 | 0.000 | 1951.182 | 0.000 | 0.00000 |
| 3. | 1951.499 | 0.000 | .32E-05 | 0.00 | .26E-06 | 90.000 | .57E-05 | 90.000 | .228E+03 | 0.000 | 1951.494 | 0.000 | 0.00000 |
| 4. | 1951.939 | 0.000 | .32E-05 | 0.00 | .35E-06 | 90.000 | .57E-05 | 90.000 | .304E+03 | 0.000 | 1951.929 | 0.000 | .00001 |
| 5. | 1952.503 | 0.000 | .32E-05 | 0.00 | .43E-06 | 90.000 | .57E-05 | 90.000 | .379E+03 | 0.000 | 1952.487 | 0.000 | .00001 |
| 6. | 1953.190 | 0.000 | .31E-05 | 0.00 | .52E-06 | 90.000 | .57E-05 | 90.000 | .453E+03 | 0.000 | 1953.168 | 0.000 | .00001 |
| 7. | 1954.000 | 0.000 | .31E-05 | 0.00 | .60E-06 | 90.000 | .57E-05 | 90.000 | .527E+03 | 0.000 | 1953.970 | 0.000 | .00002 |
| 8. | 1954.930 | 0.000 | .31E-05 | 0.00 | .68E-06 | 90.000 | .57E-05 | 90.000 | .600E+03 | 0.000 | 1954.891 | 0.000 | .00002 |
| 9. | 1955.980 | 0.000 | .31E-05 | 0.00 | .77E-06 | 90.000 | .56E-05 | 90.000 | .671E+03 | 0.000 | 1955.931 | 0.000 | .00003 |
| 10. | 1957.147 | 0.000 | .31E-05 | 0.00 | .84E-06 | 90.000 | .56E-05 | 90.000 | .742E+03 | 0.000 | 1957.088 | 0.000 | .00003 |
| 11. | 1958.430 | 0.000 | .31E-05 | 0.00 | .92E-06 | 90.000 | .56E-05 | 90.000 | .811E+03 | 0.000 | 1958.358 | 0.000 | .00004 |
| 12. | 1959.825 | 0.000 | .31E-05 | 0.00 | .10E-05 | 90.000 | .56E-05 | 90.000 | .879E+03 | 0.000 | 1959.741 | 0.000 | .00004 |
| 13. | 1961.331 | 0.000 | .31E-05 | 0.00 | .11E-05 | 90.000 | .55E-05 | 90.000 | .946E+03 | 0.000 | 1961.234 | 0.000 | .00005 |
| 14. | 1962.945 | 0.000 | .31E-05 | 0.00 | .12E-05 | 90.000 | .55E-05 | 90.000 | .101E+04 | 0.000 | 1962.835 | 0.000 | .00006 |
| 15. | 1964.664 | 0.000 | .30E-05 | 0.00 | .12E-05 | 90.000 | .55E-05 | 90.000 | .107E+04 | 0.000 | 1964.539 | 0.000 | .00006 |
| 16. | 1966.485 | 0.000 | .30E-05 | 0.00 | .13E-05 | 90.000 | .54E-05 | 90.000 | .113E+04 | 0.000 | 1966.345 | 0.000 | .00007 |
| 17. | 1968.403 | 0.000 | .30E-05 | 0.00 | .13E-05 | 90.000 | .54E-05 | 90.000 | .119E+04 | 0.000 | 1968.249 | 0.000 | .00008 |
| 18. | 1970.416 | 0.000 | .30E-05 | 0.00 | .14E-05 | 90.000 | .53E-05 | 90.000 | .125E+04 | 0.000 | 1970.246 | 0.000 | .00009 |
| 19. | 1972.518 | 0.000 | .30E-05 | 0.00 | .15E-05 | 90.000 | .53E-05 | 90.000 | .130E+04 | 0.000 | 1972.334 | 0.000 | .00009 |
| 20. | 1974.706 | 0.000 | .29E-05 | 0.00 | .15E-05 | 90.000 | .53E-05 | 90.000 | .135E+04 | 0.000 | 1974.508 | 0.000 | .00010 |
| 21. | 1976.975 | 0.000 | .29E-05 | 0.00 | .16E-05 | 90.000 | .52E-05 | 90.000 | .139E+04 | 0.000 | 1976.762 | 0.000 | .00011 |
| 22. | 1979.320 | 0.000 | .29E-05 | 0.00 | .16E-05 | 90.000 | .52E-05 | 90.000 | .144E+04 | 0.000 | 1979.093 | 0.000 | .00011 |
| 23. | 1981.734 | 0.000 | .29E-05 | 0.00 | .17E-05 | 90.000 | .51E-05 | 90.000 | .147E+04 | 0.000 | 1981.495 | 0.000 | .00012 |
| 24. | 1984.213 | 0.000 | .28E-05 | 0.00 | .17E-05 | 90.000 | .51E-05 | 90.000 | .151E+04 | 0.000 | 1983.962 | 0.000 | .00013 |
| 25. | 1986.748 | 0.000 | .28E-05 | 0.00 | .17E-05 | 90.000 | .50E-05 | 90.000 | .154E+04 | 0.000 | 1986.487 | 0.000 | .00013 |
| 26. | 1989.334 | 0.000 | .28E-05 | 0.00 | .18E-05 | 90.000 | .50E-05 | 90.000 | .156E+04 | 0.000 | 1989.064 | 0.000 | .00014 |
| 27. | 1991.962 | 0.000 | .28E-05 | 0.00 | .18E-05 | 90.000 | .49E-05 | 90.000 | .158E+04 | 0.000 | 1991.685 | 0.000 | .00014 |
| 28. | 1994.623 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .49E-05 | 90.000 | .159E+04 | 0.000 | 1994.342 | 0.000 | .00014 |
| 29. | 1997.308 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .48E-05 | 90.000 | .159E+04 | 0.000 | 1997.026 | 0.000 | .00014 |
| 30. | 2000.009 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .47E-05 | 90.000 | .159E+04 | 0.000 | 1999.726 | 0.000 | .00014 |
| 31. | 2002.709 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .47E-05 | 90.000 | .157E+04 | 0.000 | 2002.431 | 0.000 | .00014 |
| 32. | 2005.399 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .46E-05 | 90.000 | .155E+04 | 0.000 | 2005.129 | 0.000 | .00013 |
| 33. | 2008.053 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .46E-05 | 90.000 | .152E+04 | 0.000 | 2007.804 | 0.000 | .00013 |
| 34. | 2010.645 | 0.000 | .25E-05 | 0.00 | .16E-05 | 90.000 | .45E-05 | 90.000 | .147E+04 | 0.000 | 2010.440 | 0.000 | .00012 |
| 35. | 2013.245 | 0.000 | .25E-05 | 0.00 | .15E-05 | 90.000 | .44E-05 | 90.000 | .141E+04 | 0.000 | 2013.019 | 0.000 | .00011 |
| 36. | 2015.723 | 0.000 | .25E-05 | 0.00 | .14E-05 | 90.000 | .44E-05 | 90.000 | .134E+04 | 0.000 | 2015.519 | 0.000 | .00010 |
| 37. | 2018.033 | 0.000 | .25E-05 | 0.00 | .13E-05 | 90.000 | .43E-05 | 90.000 | .125E+04 | 0.000 | 2017.914 | 0.000 | .00009 |
| 38. | 2020.327 | 0.000 | .25E-05 | 0.00 | .12E-05 | 90.000 | .43E-05 | 90.000 | .115E+04 | 0.000 | 2020.176 | 0.000 | .00007 |
| 39. | 2022.333 | 0.000 | .24E-05 | 0.00 | .10E-05 | 90.000 | .43E-05 | 90.000 | .103E+04 | 0.000 | 2022.272 | 0.000 | .00006 |
| 40. | 2024.253 | 0.000 | .24E-05 | 0.00 | .89E-06 | 90.000 | .42E-05 | 90.000 | .990E+03 | 0.000 | 2024.162 | 0.000 | .00004 |
| 41. | 2025.857 | 0.000 | .24E-05 | 0.00 | .72E-06 | 90.000 | .42E-05 | 90.000 | .736E+03 | 0.000 | 2025.805 | 0.000 | .00003 |
| 42. | 2027.130 | 0.000 | .24E-05 | 0.00 | .55E-06 | 90.000 | .42E-05 | 90.000 | .567E+03 | 0.000 | 2027.153 | 0.000 | .00002 |
| 43. | 2028.177 | 0.000 | .24E-05 | 0.00 | .37E-06 | 90.000 | .42E-05 | 90.000 | .386E+03 | 0.000 | 2028.160 | 0.000 | .00001 |
| 44. | 2028.788 | 0.000 | .24E-05 | 0.00 | .18E-06 | 90.000 | .41E-05 | 90.000 | .195E+03 | 0.000 | 2028.784 | 0.000 | 0.00000 |
| 45. | 2028.996 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .41E-05 | 90.000 | 0. | 0.000 | 2028.996 | 0.000 | 0.00000 |
| 46. | 2028.788 | 0.000 | .24E-05 | 0.00 | .18E-06 | -90.000 | .41E-05 | 90.000 | .195E+03 | 180.000 | 2028.784 | 0.000 | 0.00000 |
| 47. | 2028.177 | 0.000 | .24E-05 | 0.00 | .37E-06 | -90.000 | .42E-05 | 90.000 | .386E+03 | 180.000 | 2028.160 | 0.000 | .00001 |
| 48. | 2027.190 | 0.000 | .24E-05 | 0.00 | .55E-06 | -90.000 | .42E-05 | 90.000 | .567E+03 | 180.000 | 2027.153 | 0.000 | .00002 |
| 49. | 2025.867 | 0.000 | .24E-05 | 0.00 | .72E-06 | -90.000 | .42E-05 | 90.000 | .736E+03 | 180.000 | 2025.805 | 0.000 | .00003 |

Z-AXIS BOULE TELLURIUM DIOXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2024.253 | 0.000 | .24E-05 | 0.00 | .89E-06 | -90.000 | .42E-05 | 90.000 | .890E+03 | 180.000 | 2024.162 | 0.000 | .00004 |
| 51. | 2022.393 | 0.000 | .24E-05 | 0.00 | .10E-05 | -90.000 | .43E-05 | 90.000 | .103E+04 | 180.000 | 2022.272 | 0.000 | .00006 |
| 52. | 2020.327 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .43E-05 | 90.000 | .115E+04 | 180.000 | 2020.176 | 0.000 | .00007 |
| 53. | 2018.093 | 0.000 | .25E-05 | 0.00 | .13E-05 | -90.000 | .43E-05 | 90.000 | .125E+04 | 180.000 | 2017.914 | 0.000 | .00009 |
| 54. | 2015.723 | 0.000 | .25E-05 | 0.00 | .14E-05 | -90.000 | .44E-05 | 90.000 | .134E+04 | 180.000 | 2015.519 | 0.000 | .00010 |
| 55. | 2013.245 | 0.000 | .25E-05 | 0.00 | .15E-05 | -90.000 | .44E-05 | 90.000 | .141E+04 | 180.000 | 2013.019 | 0.000 | .00011 |
| 56. | 2010.685 | 0.000 | .25E-05 | 0.00 | .16E-05 | -90.000 | .45E-05 | 90.000 | .147E+04 | 180.000 | 2010.440 | 0.000 | .00012 |
| 57. | 2008.063 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .46E-05 | 90.000 | .152E+04 | 180.000 | 2007.804 | 0.000 | .00013 |
| 58. | 2005.399 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .46E-05 | 90.000 | .155E+04 | 180.000 | 2005.129 | 0.000 | .00013 |
| 59. | 2002.709 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .47E-05 | 90.000 | .157E+04 | 180.000 | 2002.431 | 0.000 | .00014 |
| 60. | 2000.008 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .47E-05 | 90.000 | .159E+04 | 180.000 | 1999.726 | 0.000 | .00014 |
| 61. | 1997.308 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .48E-05 | 90.000 | .159E+04 | 180.000 | 1997.026 | 0.000 | .00014 |
| 62. | 1994.623 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .49E-05 | 90.000 | .159E+04 | 180.000 | 1994.342 | 0.000 | .00014 |
| 63. | 1991.962 | 0.000 | .28E-05 | 0.00 | .18E-05 | -90.000 | .49E-05 | 90.000 | .158E+04 | 180.000 | 1991.685 | 0.000 | .00014 |
| 64. | 1989.334 | 0.000 | .28E-05 | 0.00 | .18E-05 | -90.000 | .50E-05 | 90.000 | .156E+04 | 180.000 | 1989.064 | 0.000 | .00014 |
| 65. | 1986.748 | 0.000 | .28E-05 | 0.00 | .17E-05 | -90.000 | .50E-05 | 90.000 | .154E+04 | 180.000 | 1986.487 | 0.000 | .00013 |
| 66. | 1984.213 | 0.000 | .28E-05 | 0.00 | .17E-05 | -90.000 | .51E-05 | 90.000 | .151E+04 | 180.000 | 1983.962 | 0.000 | .00013 |
| 67. | 1981.734 | 0.000 | .29E-05 | 0.00 | .17E-05 | -90.000 | .51E-05 | 90.000 | .147E+04 | 180.000 | 1981.495 | 0.000 | .00012 |
| 68. | 1979.320 | 0.000 | .29E-05 | 0.00 | .16E-05 | -90.000 | .52E-05 | 90.000 | .144E+04 | 180.000 | 1979.093 | 0.000 | .00011 |
| 69. | 1976.975 | 0.000 | .29E-05 | 0.00 | .16E-05 | -90.000 | .52E-05 | 90.000 | .139E+04 | 180.000 | 1976.762 | 0.000 | .00011 |
| 70. | 1974.706 | 0.000 | .29E-05 | 0.00 | .15E-05 | -90.000 | .53E-05 | 90.000 | .135E+04 | 180.000 | 1974.508 | 0.000 | .00010 |
| 71. | 1972.518 | 0.000 | .30E-05 | 0.00 | .15E-05 | -90.000 | .53E-05 | 90.000 | .130E+04 | 180.000 | 1972.334 | 0.000 | .00009 |
| 72. | 1970.416 | 0.000 | .30E-05 | 0.00 | .14E-05 | -90.000 | .53E-05 | 90.000 | .125E+04 | 180.000 | 1970.246 | 0.000 | .00009 |
| 73. | 1968.403 | 0.000 | .30E-05 | 0.00 | .13E-05 | -90.000 | .54E-05 | 90.000 | .119E+04 | 180.000 | 1968.249 | 0.000 | .00008 |
| 74. | 1966.485 | 0.000 | .30E-05 | 0.00 | .13E-05 | -90.000 | .54E-05 | 90.000 | .113E+04 | 180.000 | 1966.345 | 0.000 | .00007 |
| 75. | 1964.664 | 0.000 | .30E-05 | 0.00 | .12E-05 | -90.000 | .55E-05 | 90.000 | .107E+04 | 180.000 | 1964.539 | 0.000 | .00006 |
| 76. | 1962.945 | 0.000 | .31E-05 | 0.00 | .12E-05 | -90.000 | .55E-05 | 90.000 | .101E+04 | 180.000 | 1962.835 | 0.000 | .00006 |
| 77. | 1961.331 | 0.000 | .31E-05 | 0.00 | .11E-05 | -90.000 | .55E-05 | 90.000 | .946E+03 | 180.000 | 1961.234 | 0.000 | .00005 |
| 78. | 1959.825 | 0.000 | .31E-05 | 0.00 | .10E-05 | -90.000 | .56E-05 | 90.000 | .879E+03 | 180.000 | 1959.741 | 0.000 | .00004 |
| 79. | 1958.430 | 0.000 | .31E-05 | 0.00 | .92E-06 | -90.000 | .56E-05 | 90.000 | .811E+03 | 180.000 | 1958.358 | 0.000 | .00004 |
| 80. | 1957.147 | 0.000 | .31E-05 | 0.00 | .84E-06 | -90.000 | .56E-05 | 90.000 | .742E+03 | 180.000 | 1957.088 | 0.000 | .00003 |
| 81. | 1955.980 | 0.000 | .31E-05 | 0.00 | .77E-06 | -90.000 | .56E-05 | 90.000 | .671E+03 | 180.000 | 1955.931 | 0.000 | .00003 |
| 82. | 1954.930 | 0.000 | .31E-05 | 0.00 | .68E-06 | -90.000 | .57E-05 | 90.000 | .600E+03 | 180.000 | 1954.891 | 0.000 | .00002 |
| 83. | 1954.000 | 0.000 | .31E-05 | 0.00 | .60E-06 | -90.000 | .57E-05 | 90.000 | .527E+03 | 180.000 | 1953.970 | 0.000 | .00002 |
| 84. | 1953.190 | 0.000 | .31E-05 | 0.00 | .52E-06 | -90.000 | .57E-05 | 90.000 | .453E+03 | 180.000 | 1953.168 | 0.000 | .00001 |
| 85. | 1952.503 | 0.000 | .32E-05 | 0.00 | .43E-06 | -90.000 | .57E-05 | 90.000 | .379E+03 | 180.000 | 1952.487 | 0.000 | .00001 |
| 86. | 1951.939 | 0.000 | .32E-05 | 0.00 | .35E-06 | -90.000 | .57E-05 | 90.000 | .304E+03 | 180.000 | 1951.929 | 0.000 | .00001 |
| 87. | 1951.499 | 0.000 | .32E-05 | 0.00 | .26E-06 | -90.000 | .57E-05 | 90.000 | .228E+03 | 180.000 | 1951.494 | 0.000 | 0.00000 |
| 88. | 1951.185 | 0.000 | .32E-05 | 0.00 | .17E-06 | -90.000 | .57E-05 | 90.000 | .152E+03 | 180.000 | 1951.182 | 0.000 | 0.00000 |
| 89. | 1950.996 | 0.000 | .32E-05 | 0.00 | .87E-07 | -90.000 | .57E-05 | 90.000 | .763E+02 | 180.000 | 1950.995 | 0.000 | 0.00000 |
| 90. | 1950.933 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 90.000 | 0. | 0.000 | 1950.933 | 0.000 | 0.00000 |
| 91. | 1950.996 | 0.000 | .32E-05 | 0.00 | .87E-07 | 90.000 | .57E-05 | 90.000 | .763E+02 | 0.000 | 1950.995 | 0.000 | 0.00000 |
| 92. | 1951.185 | 0.000 | .32E-05 | 0.00 | .17E-06 | 90.000 | .57E-05 | 90.000 | .152E+03 | 0.000 | 1951.182 | 0.000 | 0.00000 |
| 93. | 1951.499 | 0.000 | .32E-05 | 0.00 | .26E-06 | 90.000 | .57E-05 | 90.000 | .228E+03 | 0.000 | 1951.494 | 0.000 | 0.00000 |
| 94. | 1951.939 | 0.000 | .32E-05 | 0.00 | .35E-06 | 90.000 | .57E-05 | 90.000 | .304E+03 | 0.000 | 1951.929 | 0.000 | .00001 |
| 95. | 1952.503 | 0.000 | .32E-05 | 0.00 | .43E-06 | 90.000 | .57E-05 | 90.000 | .379E+03 | 0.000 | 1952.487 | 0.000 | .00001 |
| 96. | 1953.190 | 0.000 | .31E-05 | 0.00 | .52E-06 | 90.000 | .57E-05 | 90.000 | .453E+03 | 0.000 | 1953.168 | 0.000 | .00001 |
| 97. | 1954.000 | 0.000 | .31E-05 | 0.00 | .60E-06 | 90.000 | .57E-05 | 90.000 | .527E+03 | 0.000 | 1953.970 | 0.000 | .00002 |
| 98. | 1954.930 | 0.000 | .31E-05 | 0.00 | .68E-06 | 90.000 | .57E-05 | 90.000 | .600E+03 | 0.000 | 1954.891 | 0.000 | .00002 |
| 99. | 1955.980 | 0.000 | .31E-05 | 0.00 | .77E-06 | 90.000 | .56E-05 | 90.000 | .671E+03 | 0.000 | 1955.931 | 0.000 | .00003 |

Z-AXIS BOULE TELLURIUM DIOXIDE

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1957.147 | 0.000 | .31E-05 | 0.00 | .84E-06 | 90.000 | .56E-05 | 90.000 | .742E+03 | 0.000 | 1957.088 | 0.000 | .00003 |
| 101. | 1958.430 | 0.000 | .31E-05 | 0.00 | .92E-06 | 90.000 | .56E-05 | 90.000 | .811E+03 | 0.000 | 1958.358 | 0.000 | .00004 |
| 102. | 1959.825 | 0.000 | .31E-05 | 0.00 | .10E-05 | 90.000 | .56E-05 | 90.000 | .879E+03 | 0.000 | 1959.741 | 0.000 | .00004 |
| 103. | 1961.331 | 0.000 | .31E-05 | 0.00 | .11E-05 | 90.000 | .55E-05 | 90.000 | .946E+03 | 0.000 | 1961.234 | 0.000 | .00005 |
| 104. | 1962.945 | 0.000 | .31E-05 | 0.00 | .12E-05 | 90.000 | .55E-05 | 90.000 | .101E+04 | 0.000 | 1962.835 | 0.000 | .00006 |
| 105. | 1964.664 | 0.000 | .30E-05 | 0.00 | .12E-05 | 90.000 | .55E-05 | 90.000 | .107E+04 | 0.000 | 1964.539 | 0.000 | .00006 |
| 106. | 1966.485 | 0.000 | .30E-05 | 0.00 | .13E-05 | 90.000 | .54E-05 | 90.000 | .113E+04 | 0.000 | 1966.345 | 0.000 | .00007 |
| 107. | 1968.403 | 0.000 | .30E-05 | 0.00 | .13E-05 | 90.000 | .54E-05 | 90.000 | .119E+04 | 0.000 | 1968.249 | 0.000 | .00008 |
| 108. | 1970.416 | 0.000 | .30E-05 | 0.00 | .14E-05 | 90.000 | .53E-05 | 90.000 | .125E+04 | 0.000 | 1970.246 | 0.000 | .00009 |
| 109. | 1972.518 | 0.000 | .30E-05 | 0.00 | .15E-05 | 90.000 | .53E-05 | 90.000 | .130E+04 | 0.000 | 1972.334 | 0.000 | .00009 |
| 110. | 1974.706 | 0.000 | .29E-05 | 0.00 | .15E-05 | 90.000 | .53E-05 | 90.000 | .135E+04 | 0.000 | 1974.508 | 0.000 | .00010 |
| 111. | 1976.975 | 0.000 | .29E-05 | 0.00 | .16E-05 | 90.000 | .52E-05 | 90.000 | .139E+04 | 0.000 | 1976.762 | 0.000 | .00011 |
| 112. | 1979.320 | 0.000 | .29E-05 | 0.00 | .16E-05 | 90.000 | .52E-05 | 90.000 | .144E+04 | 0.000 | 1979.093 | 0.000 | .00011 |
| 113. | 1981.734 | 0.000 | .29E-05 | 0.00 | .17E-05 | 90.000 | .51E-05 | 90.000 | .147E+04 | 0.000 | 1981.495 | 0.000 | .00012 |
| 114. | 1984.213 | 0.000 | .28E-05 | 0.00 | .17E-05 | 90.000 | .51E-05 | 90.000 | .151E+04 | 0.000 | 1983.962 | 0.000 | .00013 |
| 115. | 1986.748 | 0.000 | .28E-05 | 0.00 | .17E-05 | 90.000 | .50E-05 | 90.000 | .154E+04 | 0.000 | 1986.487 | 0.000 | .00013 |
| 116. | 1989.334 | 0.000 | .28E-05 | 0.00 | .18E-05 | 90.000 | .50E-05 | 90.000 | .156E+04 | 0.000 | 1989.064 | 0.000 | .00014 |
| 117. | 1991.962 | 0.000 | .28E-05 | 0.00 | .18E-05 | 90.000 | .49E-05 | 90.000 | .158E+04 | 0.000 | 1991.685 | 0.000 | .00014 |
| 118. | 1994.623 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .49E-05 | 90.000 | .159E+04 | 0.000 | 1994.342 | 0.000 | .00014 |
| 119. | 1997.308 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .48E-05 | 90.000 | .159E+04 | 0.000 | 1997.026 | 0.000 | .00014 |
| 120. | 2000.008 | 0.000 | .27E-05 | 0.00 | .18E-05 | 90.000 | .47E-05 | 90.000 | .159E+04 | 0.000 | 1999.726 | 0.000 | .00014 |
| 121. | 2002.709 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .47E-05 | 90.000 | .157E+04 | 0.000 | 2002.431 | 0.000 | .00014 |
| 122. | 2005.399 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .46E-05 | 90.000 | .155E+04 | 0.000 | 2005.129 | 0.000 | .00013 |
| 123. | 2008.063 | 0.000 | .26E-05 | 0.00 | .17E-05 | 90.000 | .46E-05 | 90.000 | .152E+04 | 0.000 | 2007.804 | 0.000 | .00013 |
| 124. | 2010.685 | 0.000 | .25E-05 | 0.00 | .16E-05 | 90.000 | .45E-05 | 90.000 | .147E+04 | 0.000 | 2010.440 | 0.000 | .00012 |
| 125. | 2013.245 | 0.000 | .25E-05 | 0.00 | .15E-05 | 90.000 | .44E-05 | 90.000 | .141E+04 | 0.000 | 2013.019 | 0.000 | .00011 |
| 126. | 2015.723 | 0.000 | .25E-05 | 0.00 | .14E-05 | 90.000 | .44E-05 | 90.000 | .134E+04 | 0.000 | 2015.519 | 0.000 | .00010 |
| 127. | 2018.093 | 0.000 | .25E-05 | 0.00 | .13E-05 | 90.000 | .43E-05 | 90.000 | .125E+04 | 0.000 | 2017.914 | 0.000 | .00009 |
| 128. | 2020.327 | 0.000 | .25E-05 | 0.00 | .12E-05 | 90.000 | .43E-05 | 90.000 | .115E+04 | 0.000 | 2020.176 | 0.000 | .00007 |
| 129. | 2022.393 | 0.000 | .24E-05 | 0.00 | .10E-05 | 90.000 | .43E-05 | 90.000 | .103E+04 | 0.000 | 2022.272 | 0.000 | .00006 |
| 130. | 2024.253 | 0.000 | .24E-05 | 0.00 | .89E-06 | 90.000 | .42E-05 | 90.000 | .890E+03 | 0.000 | 2024.162 | 0.000 | .00004 |
| 131. | 2025.867 | 0.000 | .24E-05 | 0.00 | .72E-06 | 90.000 | .42E-05 | 90.000 | .736E+03 | 0.000 | 2025.805 | 0.000 | .00003 |
| 132. | 2027.130 | 0.000 | .24E-05 | 0.00 | .55E-06 | 90.000 | .42E-05 | 90.000 | .567E+03 | 0.000 | 2027.153 | 0.000 | .00002 |
| 133. | 2028.177 | 0.000 | .24E-05 | 0.00 | .37E-06 | 90.000 | .42E-05 | 90.000 | .386E+03 | 0.000 | 2028.160 | 0.000 | .00001 |
| 134. | 2028.788 | 0.000 | .24E-05 | 0.00 | .18E-06 | 90.000 | .41E-05 | 90.000 | .195E+03 | 0.000 | 2029.784 | 0.000 | 0.00000 |
| 135. | 2028.996 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .41E-05 | 90.000 | 0. | 0.000 | 2029.996 | 0.000 | 0.00000 |
| 136. | 2028.788 | 0.000 | .24E-05 | 0.00 | .18E-06 | -90.000 | .41E-05 | 90.000 | .195E+03 | 0.000 | 2029.784 | 0.000 | 0.00000 |
| 137. | 2028.177 | 0.000 | .24E-05 | 0.00 | .37E-06 | -90.000 | .42E-05 | 90.000 | .386E+03 | 180.000 | 2028.160 | 0.000 | .00001 |
| 138. | 2027.130 | 0.000 | .24E-05 | 0.00 | .55E-06 | -90.000 | .42E-05 | 90.000 | .567E+03 | 180.000 | 2027.153 | 0.000 | .00002 |
| 139. | 2025.867 | 0.000 | .24E-05 | 0.00 | .72E-06 | -90.000 | .42E-05 | 90.000 | .736E+03 | 180.000 | 2025.805 | 0.000 | .00003 |
| 140. | 2024.253 | 0.000 | .24E-05 | 0.00 | .89E-06 | -90.000 | .42E-05 | 90.000 | .890E+03 | 180.000 | 2024.162 | 0.000 | .00004 |
| 141. | 2022.393 | 0.000 | .24E-05 | 0.00 | .10E-05 | -90.000 | .43E-05 | 90.000 | .103E+04 | 180.000 | 2022.272 | 0.000 | .00006 |
| 142. | 2020.327 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .43E-05 | 90.000 | .115E+04 | 180.000 | 2020.176 | 0.000 | .00007 |
| 143. | 2018.093 | 0.000 | .25E-05 | 0.00 | .13E-05 | -90.000 | .43E-05 | 90.000 | .125E+04 | 180.000 | 2017.914 | 0.000 | .00009 |
| 144. | 2015.723 | 0.000 | .25E-05 | 0.00 | .14E-05 | -90.000 | .44E-05 | 90.000 | .134E+04 | 180.000 | 2015.519 | 0.000 | .00010 |
| 145. | 2013.245 | 0.000 | .25E-05 | 0.00 | .15E-05 | -90.000 | .44E-05 | 90.000 | .141E+04 | 180.000 | 2013.019 | 0.000 | .00011 |
| 146. | 2010.685 | 0.000 | .25E-05 | 0.00 | .16E-05 | -90.000 | .45E-05 | 90.000 | .147E+04 | 180.000 | 2010.440 | 0.000 | .00012 |
| 147. | 2008.063 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .46E-05 | 90.000 | .152E+04 | 180.000 | 2007.804 | 0.000 | .00013 |
| 148. | 2005.399 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .46E-05 | 90.000 | .155E+04 | 180.000 | 2005.129 | 0.000 | .00013 |
| 149. | 2002.709 | 0.000 | .26E-05 | 0.00 | .17E-05 | -90.000 | .47E-05 | 90.000 | .157E+04 | 180.000 | 2002.431 | 0.000 | .00014 |

Z-AXIS BOULE TELLURIUM DIOXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2000.008 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .47E-05 | 90.000 | .159E+04 | 180.000 | 1999.726 | 0.000 | .00014 |
| 151. | 1997.308 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .48E-05 | 90.000 | .159E+04 | 180.000 | 1997.026 | 0.000 | .00014 |
| 152. | 1994.623 | 0.000 | .27E-05 | 0.00 | .18E-05 | -90.000 | .49E-05 | 90.000 | .159E+04 | 180.000 | 1994.342 | 0.000 | .00014 |
| 153. | 1991.952 | 0.000 | .28E-05 | 0.00 | .18E-05 | -90.000 | .49E-05 | 90.000 | .158E+04 | 180.000 | 1991.685 | 0.000 | .00014 |
| 154. | 1989.334 | 0.000 | .28E-05 | 0.00 | .18E-05 | -90.000 | .50E-05 | 90.000 | .156E+04 | 180.000 | 1989.064 | 0.000 | .00014 |
| 155. | 1986.748 | 0.000 | .28E-05 | 0.00 | .17E-05 | -90.000 | .50E-05 | 90.000 | .154E+04 | 180.000 | 1986.487 | 0.000 | .00013 |
| 156. | 1984.213 | 0.000 | .28E-05 | 0.00 | .17E-05 | -90.000 | .51E-05 | 90.000 | .151E+04 | 180.000 | 1983.962 | 0.000 | .00013 |
| 157. | 1981.734 | 0.000 | .29E-05 | 0.00 | .17E-05 | -90.000 | .51E-05 | 90.000 | .147E+04 | 180.000 | 1981.495 | 0.000 | .00012 |
| 158. | 1979.320 | 0.000 | .29E-05 | 0.00 | .16E-05 | -90.000 | .52E-05 | 90.000 | .144E+04 | 180.000 | 1979.093 | 0.000 | .00011 |
| 159. | 1976.975 | 0.000 | .29E-05 | 0.00 | .16E-05 | -90.000 | .52E-05 | 90.000 | .139E+04 | 180.000 | 1976.762 | 0.000 | .00011 |
| 160. | 1974.706 | 0.000 | .29E-05 | 0.00 | .15E-05 | -90.000 | .53E-05 | 90.000 | .135E+04 | 180.000 | 1974.508 | 0.000 | .00010 |
| 161. | 1972.518 | 0.000 | .30E-05 | 0.00 | .15E-05 | -90.000 | .53E-05 | 90.000 | .130E+04 | 180.000 | 1972.334 | 0.000 | .00009 |
| 162. | 1970.416 | 0.000 | .30E-05 | 0.00 | .14E-05 | -90.000 | .53E-05 | 90.000 | .125E+04 | 180.000 | 1970.246 | 0.000 | .00009 |
| 163. | 1968.403 | 0.000 | .30E-05 | 0.00 | .13E-05 | -90.000 | .54E-05 | 90.000 | .119E+04 | 180.000 | 1968.249 | 0.000 | .00008 |
| 164. | 1966.485 | 0.000 | .30E-05 | 0.00 | .13E-05 | -90.000 | .54E-05 | 90.000 | .113E+04 | 180.000 | 1966.345 | 0.000 | .00007 |
| 165. | 1964.664 | 0.000 | .30E-05 | 0.00 | .12E-05 | -90.000 | .55E-05 | 90.000 | .107E+04 | 180.000 | 1964.539 | 0.000 | .00006 |
| 166. | 1962.945 | 0.000 | .31E-05 | 0.00 | .12E-05 | -90.000 | .55E-05 | 90.000 | .101E+04 | 180.000 | 1962.835 | 0.000 | .00006 |
| 167. | 1961.331 | 0.000 | .31E-05 | 0.00 | .11E-05 | -90.000 | .55E-05 | 90.000 | .946E+03 | 180.000 | 1961.234 | 0.000 | .00005 |
| 168. | 1959.825 | 0.000 | .31E-05 | 0.00 | .10E-05 | -90.000 | .56E-05 | 90.000 | .879E+03 | 180.000 | 1959.741 | 0.000 | .00004 |
| 169. | 1958.430 | 0.000 | .31E-05 | 0.00 | .92E-06 | -90.000 | .56E-05 | 90.000 | .811E+03 | 180.000 | 1958.358 | 0.000 | .00004 |
| 170. | 1957.147 | 0.000 | .31E-05 | 0.00 | .84E-06 | -90.000 | .56E-05 | 90.000 | .742E+03 | 180.000 | 1957.088 | 0.000 | .00003 |
| 171. | 1955.980 | 0.000 | .31E-05 | 0.00 | .77E-06 | -90.000 | .56E-05 | 90.000 | .671E+03 | 180.000 | 1955.931 | 0.000 | .00003 |
| 172. | 1954.930 | 0.000 | .31E-05 | 0.00 | .68E-06 | -90.000 | .57E-05 | 90.000 | .600E+03 | 180.000 | 1954.891 | 0.000 | .00002 |
| 173. | 1954.000 | 0.000 | .31E-05 | 0.00 | .60E-06 | -90.000 | .57E-05 | 90.000 | .527E+03 | 180.000 | 1953.970 | 0.000 | .00002 |
| 174. | 1953.190 | 0.000 | .31E-05 | 0.00 | .52E-06 | -90.000 | .57E-05 | 90.000 | .453E+03 | 180.000 | 1953.168 | 0.000 | .00001 |
| 175. | 1952.503 | 0.000 | .32E-05 | 0.00 | .43E-06 | -90.000 | .57E-05 | 90.000 | .379E+03 | 180.000 | 1952.487 | 0.000 | .00001 |
| 176. | 1951.939 | 0.000 | .32E-05 | 0.00 | .35E-06 | -90.000 | .57E-05 | 90.000 | .304E+03 | 180.000 | 1951.929 | 0.000 | .00001 |
| 177. | 1951.499 | 0.000 | .32E-05 | 0.00 | .26E-06 | -90.000 | .57E-05 | 90.000 | .228E+03 | 180.000 | 1951.494 | 0.000 | 0.00000 |
| 178. | 1951.135 | 0.000 | .32E-05 | 0.00 | .17E-06 | -90.000 | .57E-05 | 90.000 | .152E+03 | 180.000 | 1951.182 | 0.000 | 0.00000 |
| 179. | 1950.996 | 0.000 | .32E-05 | 0.00 | .87E-07 | -90.000 | .57E-05 | 90.000 | .763E+02 | 180.000 | 1950.995 | 0.000 | 0.00000 |
| 180. | 1950.933 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 90.000 | 0. | 0.000 | 1950.933 | 0.000 | 0.00000 |

X-AXIS CYLINDER TELLURIUM DIOXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1908.648 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.000 | 0. | 0.000 | 1908.648 | 0.000 | 0.00000 |
| 1. | 1908.661 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.488 | 0. | 0.000 | 1908.661 | 0.000 | 0.00000 |
| 2. | 1908.702 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.975 | 0. | 0.000 | 1908.702 | 0.000 | 0.00000 |
| 3. | 1908.769 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 91.462 | 0. | 0.000 | 1908.769 | 0.000 | 0.00000 |
| 4. | 1908.864 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 91.946 | 0. | 0.000 | 1908.864 | 0.000 | 0.00000 |
| 5. | 1908.985 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 92.429 | 0. | 0.000 | 1908.985 | 0.000 | 0.00000 |
| 6. | 1909.133 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 92.909 | 0. | 0.000 | 1909.133 | 0.000 | 0.00000 |
| 7. | 1909.307 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 93.386 | 0. | 0.000 | 1909.307 | 0.000 | 0.00000 |
| 8. | 1909.508 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 93.858 | 0. | 0.000 | 1909.508 | 0.000 | 0.00000 |
| 9. | 1909.734 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 94.327 | 0. | 0.000 | 1909.734 | 0.000 | 0.00000 |
| 10. | 1909.986 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 94.791 | 0. | 0.000 | 1909.986 | 0.000 | 0.00000 |
| 11. | 1910.264 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 95.250 | 0. | 0.000 | 1910.264 | 0.000 | 0.00000 |
| 12. | 1910.566 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 95.703 | 0. | 0.000 | 1910.566 | 0.000 | 0.00000 |
| 13. | 1910.893 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 96.149 | 0. | 0.000 | 1910.893 | 0.000 | 0.00000 |
| 14. | 1911.244 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 96.589 | 0. | 0.000 | 1911.244 | 0.000 | 0.00000 |
| 15. | 1911.618 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 97.021 | 0. | 0.000 | 1911.618 | 0.000 | 0.00000 |
| 16. | 1912.015 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 97.446 | 0. | 0.000 | 1912.015 | 0.000 | 0.00000 |
| 17. | 1912.436 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 97.863 | 0. | 0.000 | 1912.436 | 0.000 | 0.00000 |
| 18. | 1912.878 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 98.271 | 0. | 0.000 | 1912.878 | 0.000 | 0.00000 |
| 19. | 1913.341 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 98.670 | 0. | 0.000 | 1913.341 | 0.000 | 0.00000 |
| 20. | 1913.825 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 99.059 | 0. | 0.000 | 1913.825 | 0.000 | 0.00000 |
| 21. | 1914.329 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 99.439 | 0. | 0.000 | 1914.329 | 0.000 | 0.00000 |
| 22. | 1914.853 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 99.808 | 0. | 0.000 | 1914.853 | 0.000 | 0.00000 |
| 23. | 1915.396 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 100.166 | 0. | 0.000 | 1915.396 | 0.000 | 0.00000 |
| 24. | 1915.956 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 100.514 | 0. | 0.000 | 1915.956 | 0.000 | 0.00000 |
| 25. | 1916.534 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .51E-05 | 100.849 | 0. | 0.000 | 1916.534 | 0.000 | 0.00000 |
| 26. | 1917.128 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .51E-05 | 101.173 | 0. | 0.000 | 1917.128 | 0.000 | 0.00000 |
| 27. | 1917.737 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 101.485 | 0. | 0.000 | 1917.737 | 0.000 | 0.00000 |
| 28. | 1918.362 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 101.784 | 0. | 0.000 | 1918.362 | 0.000 | 0.00000 |
| 29. | 1919.001 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 102.070 | 0. | 0.000 | 1919.001 | 0.000 | 0.00000 |
| 30. | 1919.653 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 102.342 | 0. | 0.000 | 1919.653 | 0.000 | 0.00000 |
| 31. | 1920.317 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 102.602 | 0. | 0.000 | 1920.317 | 0.000 | 0.00000 |
| 32. | 1920.992 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 102.847 | 0. | 0.000 | 1920.992 | 0.000 | 0.00000 |
| 33. | 1921.678 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .52E-05 | 103.078 | 0. | 0.000 | 1921.678 | 0.000 | 0.00000 |
| 34. | 1922.374 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 103.294 | 0. | 0.000 | 1922.374 | 0.000 | 0.00000 |
| 35. | 1923.078 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 103.496 | 0. | 0.000 | 1923.078 | 0.000 | 0.00000 |
| 36. | 1923.790 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 103.683 | 0. | 0.000 | 1923.790 | 0.000 | 0.00000 |
| 37. | 1924.509 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 103.854 | 0. | 0.000 | 1924.509 | 0.000 | 0.00000 |
| 38. | 1925.234 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 104.010 | 0. | 0.000 | 1925.234 | 0.000 | 0.00000 |
| 39. | 1925.964 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 104.151 | 0. | 0.000 | 1925.964 | 0.000 | 0.00000 |
| 40. | 1926.698 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.275 | 0. | 0.000 | 1926.698 | 0.000 | 0.00000 |
| 41. | 1927.435 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.383 | 0. | 0.000 | 1927.435 | 0.000 | 0.00000 |
| 42. | 1928.175 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.474 | 0. | 0.000 | 1928.175 | 0.000 | 0.00000 |
| 43. | 1928.915 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.549 | 0. | 0.000 | 1928.915 | 0.000 | 0.00000 |
| 44. | 1929.656 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.608 | 0. | 0.000 | 1929.656 | 0.000 | 0.00000 |
| 45. | 1930.396 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.649 | 0. | 0.000 | 1930.396 | 0.000 | 0.00000 |
| 46. | 1931.135 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .53E-05 | 104.673 | 0. | 0.000 | 1931.135 | 0.000 | 0.00000 |
| 47. | 1931.872 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.680 | 0. | 0.000 | 1931.872 | 0.000 | 0.00000 |
| 48. | 1932.605 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.670 | 0. | 0.000 | 1932.605 | 0.000 | 0.00000 |
| 49. | 1933.333 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.642 | 0. | 0.000 | 1933.333 | 0.000 | 0.00000 |

X-AXIS CYLINDER TELLURIUM DIOXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1934.057 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.597 | 0. | 0.000 | 1934.057 | 0.000 | 0.00000 |
| 51. | 1934.775 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.534 | 0. | 0.000 | 1934.775 | 0.000 | 0.00000 |
| 52. | 1935.486 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.454 | 0. | 0.000 | 1935.486 | 0.000 | 0.00000 |
| 53. | 1936.189 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 104.355 | 0. | 0.000 | 1936.189 | 0.000 | 0.00000 |
| 54. | 1936.884 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 104.239 | 0. | 0.000 | 1936.884 | 0.000 | 0.00000 |
| 55. | 1937.570 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 104.105 | 0. | 0.000 | 1937.570 | 0.000 | 0.00000 |
| 56. | 1938.245 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 103.954 | 0. | 0.000 | 1938.245 | 0.000 | 0.00000 |
| 57. | 1938.910 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 103.784 | 0. | 0.000 | 1938.910 | 0.000 | 0.00000 |
| 58. | 1939.563 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 103.597 | 0. | 0.000 | 1939.563 | 0.000 | 0.00000 |
| 59. | 1940.204 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 103.392 | 0. | 0.000 | 1940.204 | 0.000 | 0.00000 |
| 60. | 1940.831 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 103.170 | 0. | 0.000 | 1940.831 | 0.000 | 0.00000 |
| 61. | 1941.445 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 102.930 | 0. | 0.000 | 1941.445 | 0.000 | 0.00000 |
| 62. | 1942.045 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .56E-05 | 102.673 | 0. | 0.000 | 1942.045 | 0.000 | 0.00000 |
| 63. | 1942.629 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 102.399 | 0. | 0.000 | 1942.629 | 0.000 | 0.00000 |
| 64. | 1943.198 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 102.108 | 0. | 0.000 | 1943.198 | 0.000 | 0.00000 |
| 65. | 1943.751 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 101.800 | 0. | 0.000 | 1943.751 | 0.000 | 0.00000 |
| 66. | 1944.286 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 101.476 | 0. | 0.000 | 1944.286 | 0.000 | 0.00000 |
| 67. | 1944.804 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 101.135 | 0. | 0.000 | 1944.804 | 0.000 | 0.00000 |
| 68. | 1945.304 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 100.779 | 0. | 0.000 | 1945.304 | 0.000 | 0.00000 |
| 69. | 1945.786 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .56E-05 | 100.407 | 0. | 0.000 | 1945.786 | 0.000 | 0.00000 |
| 70. | 1946.249 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .56E-05 | 100.021 | 0. | 0.000 | 1946.249 | 0.000 | 0.00000 |
| 71. | 1946.692 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 99.619 | 0. | 0.000 | 1946.692 | 0.000 | 0.00000 |
| 72. | 1947.115 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 99.203 | 0. | 0.000 | 1947.115 | 0.000 | 0.00000 |
| 73. | 1947.517 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 98.774 | 0. | 0.000 | 1947.517 | 0.000 | 0.00000 |
| 74. | 1947.899 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 98.331 | 0. | 0.000 | 1947.899 | 0.000 | 0.00000 |
| 75. | 1948.260 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 97.876 | 0. | 0.000 | 1948.260 | 0.000 | 0.00000 |
| 76. | 1948.599 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 97.408 | 0. | 0.000 | 1948.599 | 0.000 | 0.00000 |
| 77. | 1948.916 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 96.929 | 0. | 0.000 | 1948.916 | 0.000 | 0.00000 |
| 78. | 1949.211 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 96.440 | 0. | 0.000 | 1949.211 | 0.000 | 0.00000 |
| 79. | 1949.483 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 95.940 | 0. | 0.000 | 1949.483 | 0.000 | 0.00000 |
| 80. | 1949.732 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 95.431 | 0. | 0.000 | 1949.732 | 0.000 | 0.00000 |
| 81. | 1949.959 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 94.913 | 0. | 0.000 | 1949.959 | 0.000 | 0.00000 |
| 82. | 1950.162 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 94.387 | 0. | 0.000 | 1950.162 | 0.000 | 0.00000 |
| 83. | 1950.342 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 93.854 | 0. | 0.000 | 1950.342 | 0.000 | 0.00000 |
| 84. | 1950.498 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 93.316 | 0. | 0.000 | 1950.498 | 0.000 | 0.00000 |
| 85. | 1950.631 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 92.771 | 0. | 0.000 | 1950.631 | 0.000 | 0.00000 |
| 86. | 1950.739 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 92.222 | 0. | 0.000 | 1950.739 | 0.000 | 0.00000 |
| 87. | 1950.824 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 91.670 | 0. | 0.000 | 1950.824 | 0.000 | 0.00000 |
| 88. | 1950.884 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 91.115 | 0. | 0.000 | 1950.884 | 0.000 | 0.00000 |
| 89. | 1950.921 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 90.558 | 0. | 0.000 | 1950.921 | 0.000 | 0.00000 |
| 90. | 1950.933 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 90.000 | 0. | 0.000 | 1950.933 | 0.000 | 0.00000 |
| 91. | 1950.921 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 89.442 | 0. | 0.000 | 1950.921 | 0.000 | 0.00000 |
| 92. | 1950.884 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 88.885 | 0. | 0.000 | 1950.884 | 0.000 | 0.00000 |
| 93. | 1950.824 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 88.330 | 0. | 0.000 | 1950.824 | 0.000 | 0.00000 |
| 94. | 1950.739 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 87.778 | 0. | 0.000 | 1950.739 | 0.000 | 0.00000 |
| 95. | 1950.631 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 87.229 | 0. | 0.000 | 1950.631 | 0.000 | 0.00000 |
| 96. | 1950.498 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 86.684 | 0. | 0.000 | 1950.498 | 0.000 | 0.00000 |
| 97. | 1950.342 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 86.146 | 0. | 0.000 | 1950.342 | 0.000 | 0.00000 |
| 98. | 1950.162 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 85.613 | 0. | 0.000 | 1950.162 | 0.000 | 0.00000 |
| 99. | 1949.959 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 85.087 | 0. | 0.000 | 1949.959 | 0.000 | 0.00000 |

X-AXIS CYLINDER TELLURIUM DIOXIDE

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1949.732 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 84.569 | 0. | 0.000 | 1949.732 | 0.000 | 0.00000 |
| 101. | 1949.483 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 84.060 | 0. | 0.000 | 1949.483 | 0.000 | 0.00000 |
| 102. | 1949.211 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 83.560 | 0. | 0.000 | 1949.211 | 0.000 | 0.00000 |
| 103. | 1948.916 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 83.071 | 0. | 0.000 | 1948.916 | 0.000 | 0.00000 |
| 104. | 1948.599 | 0.000 | .32E-05 | 0.00 | 0. | 0.000 | .57E-05 | 82.592 | 0. | 0.000 | 1948.599 | 0.000 | 0.00000 |
| 105. | 1948.260 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 82.124 | 0. | 0.000 | 1948.260 | 0.000 | 0.00000 |
| 106. | 1947.899 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 81.669 | 0. | 0.000 | 1947.899 | 0.000 | 0.00000 |
| 107. | 1947.517 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 81.226 | 0. | 0.000 | 1947.517 | 0.000 | 0.00000 |
| 108. | 1947.115 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 80.797 | 0. | 0.000 | 1947.115 | 0.000 | 0.00000 |
| 109. | 1946.692 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .57E-05 | 80.381 | 0. | 0.000 | 1946.692 | 0.000 | 0.00000 |
| 110. | 1946.249 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .56E-05 | 79.979 | 0. | 0.000 | 1946.249 | 0.000 | 0.00000 |
| 111. | 1945.786 | 0.000 | .33E-05 | 0.00 | 0. | 0.000 | .56E-05 | 79.593 | 0. | 0.000 | 1945.786 | 0.000 | 0.00000 |
| 112. | 1945.304 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 79.221 | 0. | 0.000 | 1945.304 | 0.000 | 0.00000 |
| 113. | 1944.804 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 78.865 | 0. | 0.000 | 1944.804 | 0.000 | 0.00000 |
| 114. | 1944.286 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 78.524 | 0. | 0.000 | 1944.286 | 0.000 | 0.00000 |
| 115. | 1943.751 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 78.200 | 0. | 0.000 | 1943.751 | 0.000 | 0.00000 |
| 116. | 1943.198 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 77.892 | 0. | 0.000 | 1943.198 | 0.000 | 0.00000 |
| 117. | 1942.629 | 0.000 | .34E-05 | 0.00 | 0. | 0.000 | .56E-05 | 77.601 | 0. | 0.000 | 1942.629 | 0.000 | 0.00000 |
| 118. | 1942.045 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .56E-05 | 77.327 | 0. | 0.000 | 1942.045 | 0.000 | 0.00000 |
| 119. | 1941.445 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 77.070 | 0. | 0.000 | 1941.445 | 0.000 | 0.00000 |
| 120. | 1940.831 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 76.830 | 0. | 0.000 | 1940.831 | 0.000 | 0.00000 |
| 121. | 1940.204 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 76.608 | 0. | 0.000 | 1940.204 | 0.000 | 0.00000 |
| 122. | 1939.563 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 76.403 | 0. | 0.000 | 1939.563 | 0.000 | 0.00000 |
| 123. | 1938.910 | 0.000 | .35E-05 | 0.00 | 0. | 0.000 | .55E-05 | 76.216 | 0. | 0.000 | 1938.910 | 0.000 | 0.00000 |
| 124. | 1938.245 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 76.046 | 0. | 0.000 | 1938.245 | 0.000 | 0.00000 |
| 125. | 1937.570 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 75.895 | 0. | 0.000 | 1937.570 | 0.000 | 0.00000 |
| 126. | 1936.884 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .55E-05 | 75.761 | 0. | 0.000 | 1936.884 | 0.000 | 0.00000 |
| 127. | 1936.189 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.645 | 0. | 0.000 | 1936.189 | 0.000 | 0.00000 |
| 128. | 1935.486 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.546 | 0. | 0.000 | 1935.486 | 0.000 | 0.00000 |
| 129. | 1934.775 | 0.000 | .36E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.466 | 0. | 0.000 | 1934.775 | 0.000 | 0.00000 |
| 130. | 1934.057 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.403 | 0. | 0.000 | 1934.057 | 0.000 | 0.00000 |
| 131. | 1933.333 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.358 | 0. | 0.000 | 1933.333 | 0.000 | 0.00000 |
| 132. | 1932.605 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.330 | 0. | 0.000 | 1932.605 | 0.000 | 0.00000 |
| 133. | 1931.872 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .54E-05 | 75.320 | 0. | 0.000 | 1931.872 | 0.000 | 0.00000 |
| 134. | 1931.135 | 0.000 | .37E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.327 | 0. | 0.000 | 1931.135 | 0.000 | 0.00000 |
| 135. | 1930.396 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.351 | 0. | 0.000 | 1930.396 | 0.000 | 0.00000 |
| 136. | 1929.656 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.392 | 0. | 0.000 | 1929.656 | 0.000 | 0.00000 |
| 137. | 1928.915 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.451 | 0. | 0.000 | 1928.915 | 0.000 | 0.00000 |
| 138. | 1928.175 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.526 | 0. | 0.000 | 1928.175 | 0.000 | 0.00000 |
| 139. | 1927.435 | 0.000 | .38E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.617 | 0. | 0.000 | 1927.435 | 0.000 | 0.00000 |
| 140. | 1926.698 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .53E-05 | 75.725 | 0. | 0.000 | 1926.698 | 0.000 | 0.00000 |
| 141. | 1925.964 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 75.849 | 0. | 0.000 | 1925.964 | 0.000 | 0.00000 |
| 142. | 1925.234 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 75.990 | 0. | 0.000 | 1925.234 | 0.000 | 0.00000 |
| 143. | 1924.509 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 76.146 | 0. | 0.000 | 1924.509 | 0.000 | 0.00000 |
| 144. | 1923.790 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 76.317 | 0. | 0.000 | 1923.790 | 0.000 | 0.00000 |
| 145. | 1923.078 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 76.504 | 0. | 0.000 | 1923.078 | 0.000 | 0.00000 |
| 146. | 1922.374 | 0.000 | .39E-05 | 0.00 | 0. | 0.000 | .52E-05 | 76.706 | 0. | 0.000 | 1922.374 | 0.000 | 0.00000 |
| 147. | 1921.678 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .52E-05 | 76.922 | 0. | 0.000 | 1921.678 | 0.000 | 0.00000 |
| 148. | 1920.992 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 77.153 | 0. | 0.000 | 1920.992 | 0.000 | 0.00000 |
| 149. | 1920.317 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 77.398 | 0. | 0.000 | 1920.317 | 0.000 | 0.00000 |

X-AXIS CYLINDER TELLURIUM DIOXIDE

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1919.653 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 77.658 | 0. | 0.000 | 1919.653 | 0.000 | 0.00000 |
| 151. | 1919.001 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 77.930 | 0. | 0.000 | 1919.001 | 0.000 | 0.00000 |
| 152. | 1918.362 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 78.216 | 0. | 0.000 | 1918.362 | 0.000 | 0.00000 |
| 153. | 1917.737 | 0.000 | .40E-05 | 0.00 | 0. | 0.000 | .51E-05 | 78.515 | 0. | 0.000 | 1917.737 | 0.000 | 0.00000 |
| 154. | 1917.128 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .51E-05 | 78.827 | 0. | 0.000 | 1917.128 | 0.000 | 0.00000 |
| 155. | 1916.534 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .51E-05 | 79.151 | 0. | 0.000 | 1916.534 | 0.000 | 0.00000 |
| 156. | 1915.956 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 79.486 | 0. | 0.000 | 1915.956 | 0.000 | 0.00000 |
| 157. | 1915.396 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 79.834 | 0. | 0.000 | 1915.396 | 0.000 | 0.00000 |
| 158. | 1914.853 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 80.192 | 0. | 0.000 | 1914.853 | 0.000 | 0.00000 |
| 159. | 1914.329 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 80.561 | 0. | 0.000 | 1914.329 | 0.000 | 0.00000 |
| 160. | 1913.825 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 80.941 | 0. | 0.000 | 1913.825 | 0.000 | 0.00000 |
| 161. | 1913.341 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 81.330 | 0. | 0.000 | 1913.341 | 0.000 | 0.00000 |
| 162. | 1912.878 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 81.729 | 0. | 0.000 | 1912.878 | 0.000 | 0.00000 |
| 163. | 1912.436 | 0.000 | .41E-05 | 0.00 | 0. | 0.000 | .50E-05 | 82.137 | 0. | 0.000 | 1912.436 | 0.000 | 0.00000 |
| 164. | 1912.015 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 82.554 | 0. | 0.000 | 1912.015 | 0.000 | 0.00000 |
| 165. | 1911.618 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 82.979 | 0. | 0.000 | 1911.618 | 0.000 | 0.00000 |
| 166. | 1911.244 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 83.411 | 0. | 0.000 | 1911.244 | 0.000 | 0.00000 |
| 167. | 1910.893 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .50E-05 | 83.851 | 0. | 0.000 | 1910.893 | 0.000 | 0.00000 |
| 168. | 1910.566 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 84.297 | 0. | 0.000 | 1910.566 | 0.000 | 0.00000 |
| 169. | 1910.264 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 84.750 | 0. | 0.000 | 1910.264 | 0.000 | 0.00000 |
| 170. | 1909.986 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 85.209 | 0. | 0.000 | 1909.986 | 0.000 | 0.00000 |
| 171. | 1909.734 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 85.673 | 0. | 0.000 | 1909.734 | 0.000 | 0.00000 |
| 172. | 1909.508 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 86.142 | 0. | 0.000 | 1909.508 | 0.000 | 0.00000 |
| 173. | 1909.307 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 86.614 | 0. | 0.000 | 1909.307 | 0.000 | 0.00000 |
| 174. | 1909.133 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 87.091 | 0. | 0.000 | 1909.133 | 0.000 | 0.00000 |
| 175. | 1908.985 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 87.571 | 0. | 0.000 | 1908.985 | 0.000 | 0.00000 |
| 176. | 1908.864 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 88.054 | 0. | 0.000 | 1908.864 | 0.000 | 0.00000 |
| 177. | 1908.769 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 88.538 | 0. | 0.000 | 1908.769 | 0.000 | 0.00000 |
| 178. | 1908.702 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 89.025 | 0. | 0.000 | 1908.702 | 0.000 | 0.00000 |
| 179. | 1908.661 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 89.512 | 0. | 0.000 | 1908.661 | 0.000 | 0.00000 |
| 180. | 1908.648 | 0.000 | .42E-05 | 0.00 | 0. | 0.000 | .49E-05 | 90.000 | 0. | 0.000 | 1908.648 | 0.000 | 0.00000 |

Z-OUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4598.592 | .010 | .18E-05 | 0.00 | .82E-09 | 180.000 | .26E-05 | 90.000 |
| 2. | 4598.613 | .020 | .18E-05 | 0.00 | .16E-08 | 180.000 | .26E-05 | 90.000 |
| 3. | 4598.648 | .030 | .18E-05 | 0.00 | .24E-08 | 180.000 | .26E-05 | 90.000 |
| 4. | 4598.697 | .040 | .18E-05 | 0.00 | .32E-08 | 180.000 | .26E-05 | 90.000 |
| 5. | 4598.759 | .049 | .18E-05 | 0.00 | .40E-08 | 180.000 | .26E-05 | 90.000 |
| 6. | 4598.834 | .058 | .18E-05 | 0.00 | .48E-08 | 180.000 | .26E-05 | 90.000 |
| 7. | 4598.923 | .068 | .18E-05 | 0.00 | .55E-08 | 180.000 | .26E-05 | 90.000 |
| 8. | 4599.024 | .076 | .18E-05 | 0.00 | .62E-08 | 180.000 | .26E-05 | 90.000 |
| 9. | 4599.137 | .085 | .18E-05 | 0.00 | .68E-08 | 180.000 | .26E-05 | 90.000 |
| 10. | 4599.261 | .093 | .18E-05 | 0.00 | .75E-08 | 180.000 | .26E-05 | 90.000 |
| 11. | 4599.396 | .100 | .18E-05 | 0.00 | .81E-08 | 180.000 | .26E-05 | 90.000 |
| 12. | 4599.542 | .108 | .18E-05 | 0.00 | .86E-08 | 180.000 | .26E-05 | 90.000 |
| 13. | 4599.698 | .114 | .18E-05 | 0.00 | .91E-08 | 180.000 | .26E-05 | 90.000 |
| 14. | 4599.862 | .121 | .18E-05 | 0.00 | .96E-08 | 180.000 | .26E-05 | 90.000 |
| 15. | 4600.035 | .126 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 16. | 4600.216 | .131 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 17. | 4600.403 | .136 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 18. | 4600.595 | .139 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 19. | 4600.793 | .142 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 20. | 4600.994 | .145 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 21. | 4601.199 | .147 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 22. | 4601.405 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 23. | 4601.613 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 24. | 4601.820 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 25. | 4602.027 | .147 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 26. | 4602.231 | .145 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 27. | 4602.432 | .142 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 28. | 4602.630 | .139 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 29. | 4602.822 | .135 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 30. | 4603.008 | .130 | .18E-05 | 0.00 | .96E-08 | 180.000 | .26E-05 | 90.000 |
| 31. | 4603.187 | .125 | .18E-05 | 0.00 | .91E-08 | 180.000 | .26E-05 | 90.000 |
| 32. | 4603.359 | .119 | .18E-05 | 0.00 | .87E-08 | 180.000 | .26E-05 | 90.000 |
| 33. | 4603.521 | .113 | .18E-05 | 0.00 | .82E-08 | 180.000 | .26E-05 | 90.000 |
| 34. | 4603.674 | .105 | .18E-05 | 0.00 | .76E-08 | 180.000 | .26E-05 | 90.000 |
| 35. | 4603.817 | .098 | .18E-05 | 0.00 | .70E-08 | 180.000 | .26E-05 | 90.000 |
| 36. | 4603.948 | .090 | .18E-05 | 0.00 | .64E-08 | 180.000 | .26E-05 | 90.000 |
| 37. | 4604.068 | .081 | .18E-05 | 0.00 | .58E-08 | 180.000 | .26E-05 | 90.000 |
| 38. | 4604.175 | .072 | .18E-05 | 0.00 | .51E-08 | 180.000 | .26E-05 | 90.000 |
| 39. | 4604.269 | .062 | .18E-05 | 0.00 | .44E-08 | 180.000 | .26E-05 | 90.000 |
| 40. | 4604.349 | .052 | .18E-05 | 0.00 | .37E-08 | 180.000 | .26E-05 | 90.000 |
| 41. | 4604.416 | .042 | .18E-05 | 0.00 | .30E-08 | 180.000 | .26E-05 | 90.000 |
| 42. | 4604.468 | .032 | .18E-05 | 0.00 | .22E-08 | 180.000 | .26E-05 | 90.000 |
| 43. | 4604.505 | .021 | .18E-05 | 0.00 | .15E-08 | 180.000 | .26E-05 | 90.000 |
| 44. | 4604.528 | .011 | .18E-05 | 0.00 | .75E-09 | 180.000 | .26E-05 | 90.000 |
| 45. | 4604.535 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 46. | 4604.528 | -.011 | .18E-05 | 0.00 | .75E-09 | 0.000 | .26E-05 | 90.000 |
| 47. | 4604.505 | -.021 | .18E-05 | 0.00 | .15E-08 | 0.000 | .26E-05 | 90.000 |
| 48. | 4604.468 | -.032 | .18E-05 | 0.00 | .22E-08 | 0.000 | .26E-05 | 90.000 |
| 49. | 4604.416 | -.042 | .18E-05 | 0.00 | .30E-08 | 0.000 | .26E-05 | 90.000 |

Z-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4604.349 | -.052 | .18E-05 | 0.00 | .37E-08 | 0.000 | .26E-05 | 90.000 |
| 51. | 4604.269 | -.062 | .18E-05 | 0.00 | .44E-08 | 0.000 | .26E-05 | 90.000 |
| 52. | 4604.175 | -.072 | .18E-05 | 0.00 | .51E-08 | 0.000 | .26E-05 | 90.000 |
| 53. | 4604.068 | -.081 | .18E-05 | 0.00 | .58E-08 | 0.000 | .26E-05 | 90.000 |
| 54. | 4603.948 | -.090 | .18E-05 | 0.00 | .64E-08 | 0.000 | .26E-05 | 90.000 |
| 55. | 4603.817 | -.098 | .18E-05 | 0.00 | .70E-08 | 0.000 | .26E-05 | 90.000 |
| 56. | 4603.674 | -.105 | .18E-05 | 0.00 | .76E-08 | 0.000 | .26E-05 | 90.000 |
| 57. | 4603.521 | -.113 | .18E-05 | 0.00 | .82E-08 | 0.000 | .26E-05 | 90.000 |
| 58. | 4603.359 | -.119 | .18E-05 | 0.00 | .87E-08 | 0.000 | .26E-05 | 90.000 |
| 59. | 4603.187 | -.125 | .18E-05 | 0.00 | .91E-08 | 0.000 | .26E-05 | 90.000 |
| 60. | 4603.008 | -.130 | .18E-05 | 0.00 | .96E-08 | 0.000 | .26E-05 | 90.000 |
| 61. | 4602.822 | -.135 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 62. | 4602.630 | -.139 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 63. | 4602.432 | -.142 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 64. | 4602.231 | -.145 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 65. | 4602.027 | -.147 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 66. | 4601.820 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 67. | 4601.613 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 68. | 4601.405 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 69. | 4601.199 | -.147 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 70. | 4600.994 | -.145 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 71. | 4600.793 | -.142 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 72. | 4600.595 | -.139 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 73. | 4600.403 | -.136 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 74. | 4600.216 | -.131 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 75. | 4600.035 | -.126 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 76. | 4599.862 | -.121 | .18E-05 | 0.00 | .96E-08 | 0.000 | .26E-05 | 90.000 |
| 77. | 4599.698 | -.114 | .18E-05 | 0.00 | .91E-08 | 0.000 | .26E-05 | 90.000 |
| 78. | 4599.542 | -.108 | .18E-05 | 0.00 | .86E-08 | 0.000 | .26E-05 | 90.000 |
| 79. | 4599.396 | -.100 | .18E-05 | 0.00 | .81E-08 | 0.000 | .26E-05 | 90.000 |
| 80. | 4599.261 | -.093 | .18E-05 | 0.00 | .75E-08 | 0.000 | .26E-05 | 90.000 |
| 81. | 4599.137 | -.085 | .18E-05 | 0.00 | .68E-08 | 0.000 | .26E-05 | 90.000 |
| 82. | 4599.024 | -.076 | .18E-05 | 0.00 | .62E-08 | 0.000 | .26E-05 | 90.000 |
| 83. | 4598.923 | -.068 | .18E-05 | 0.00 | .55E-08 | 0.000 | .26E-05 | 90.000 |
| 84. | 4598.834 | -.058 | .18E-05 | 0.00 | .48E-08 | 0.000 | .26E-05 | 90.000 |
| 85. | 4598.759 | -.049 | .18E-05 | 0.00 | .40E-08 | 0.000 | .26E-05 | 90.000 |
| 86. | 4598.697 | -.040 | .18E-05 | 0.00 | .32E-08 | 0.000 | .26E-05 | 90.000 |
| 87. | 4598.648 | -.030 | .18E-05 | 0.00 | .24E-08 | 0.000 | .26E-05 | 90.000 |
| 88. | 4598.613 | -.020 | .18E-05 | 0.00 | .16E-08 | 0.000 | .26E-05 | 90.000 |
| 89. | 4598.592 | -.010 | .18E-05 | 0.00 | .82E-09 | 0.000 | .26E-05 | 90.000 |
| 90. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 91. | 4598.592 | .010 | .18E-05 | 0.00 | .82E-09 | 180.000 | .26E-05 | 90.000 |
| 92. | 4598.613 | .020 | .18E-05 | 0.00 | .16E-08 | 180.000 | .26E-05 | 90.000 |
| 93. | 4598.648 | .030 | .18E-05 | 0.00 | .24E-08 | 180.000 | .26E-05 | 90.000 |
| 94. | 4598.697 | .040 | .18E-05 | 0.00 | .32E-08 | 180.000 | .26E-05 | 90.000 |
| 95. | 4598.759 | .049 | .18E-05 | 0.00 | .40E-08 | 180.000 | .26E-05 | 90.000 |
| 96. | 4598.834 | .058 | .18E-05 | 0.00 | .48E-08 | 180.000 | .26E-05 | 90.000 |
| 97. | 4598.923 | .068 | .18E-05 | 0.00 | .55E-08 | 180.000 | .26E-05 | 90.000 |
| 98. | 4599.024 | .076 | .18E-05 | 0.00 | .62E-08 | 180.000 | .26E-05 | 90.000 |
| 99. | 4599.137 | .085 | .18E-05 | 0.00 | .68E-08 | 180.000 | .26E-05 | 90.000 |

Z-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4599.261 | .093 | .18E-05 | 0.00 | .75E-08 | 180.000 | .26E-05 | 90.000 |
| 101. | 4599.396 | .100 | .18E-05 | 0.00 | .81E-08 | 180.000 | .26E-05 | 90.000 |
| 102. | 4599.542 | .108 | .18E-05 | 0.00 | .86E-08 | 180.000 | .26E-05 | 90.000 |
| 103. | 4599.698 | .114 | .18E-05 | 0.00 | .91E-08 | 180.000 | .26E-05 | 90.000 |
| 104. | 4599.862 | .121 | .18E-05 | 0.00 | .96E-08 | 180.000 | .26E-05 | 90.000 |
| 105. | 4600.035 | .126 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 106. | 4600.216 | .131 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 107. | 4600.403 | .136 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 108. | 4600.595 | .139 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 109. | 4600.793 | .142 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 110. | 4600.994 | .145 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 111. | 4601.199 | .147 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 112. | 4601.405 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 113. | 4601.613 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 114. | 4601.820 | .148 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 115. | 4602.027 | .147 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 116. | 4602.231 | .145 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 117. | 4602.432 | .142 | .18E-05 | 0.00 | .11E-07 | 180.000 | .26E-05 | 90.000 |
| 118. | 4602.630 | .139 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 119. | 4602.822 | .135 | .18E-05 | 0.00 | .10E-07 | 180.000 | .26E-05 | 90.000 |
| 120. | 4603.008 | .130 | .18E-05 | 0.00 | .96E-08 | 180.000 | .26E-05 | 90.000 |
| 121. | 4603.187 | .125 | .18E-05 | 0.00 | .91E-08 | 180.000 | .26E-05 | 90.000 |
| 122. | 4603.359 | .119 | .18E-05 | 0.00 | .87E-08 | 180.000 | .26E-05 | 90.000 |
| 123. | 4603.521 | .113 | .18E-05 | 0.00 | .82E-08 | 180.000 | .26E-05 | 90.000 |
| 124. | 4603.674 | .105 | .18E-05 | 0.00 | .76E-08 | 180.000 | .26E-05 | 90.000 |
| 125. | 4603.817 | .098 | .18E-05 | 0.00 | .70E-08 | 180.000 | .26E-05 | 90.000 |
| 126. | 4603.948 | .090 | .18E-05 | 0.00 | .64E-08 | 180.000 | .26E-05 | 90.000 |
| 127. | 4604.068 | .081 | .18E-05 | 0.00 | .58E-08 | 180.000 | .26E-05 | 90.000 |
| 128. | 4604.175 | .072 | .18E-05 | 0.00 | .51E-08 | 180.000 | .26E-05 | 90.000 |
| 129. | 4604.269 | .062 | .18E-05 | 0.00 | .44E-08 | 180.000 | .26E-05 | 90.000 |
| 130. | 4604.349 | .052 | .18E-05 | 0.00 | .37E-08 | 180.000 | .26E-05 | 90.000 |
| 131. | 4604.416 | .042 | .18E-05 | 0.00 | .30E-08 | 180.000 | .26E-05 | 90.000 |
| 132. | 4604.468 | .032 | .18E-05 | 0.00 | .22E-08 | 180.000 | .26E-05 | 90.000 |
| 133. | 4604.505 | .021 | .18E-05 | 0.00 | .15E-08 | 180.000 | .26E-05 | 90.000 |
| 134. | 4604.528 | .011 | .18E-05 | 0.00 | .75E-09 | 180.000 | .26E-05 | 90.000 |
| 135. | 4604.535 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 136. | 4604.528 | -.011 | .18E-05 | 0.00 | .75E-09 | 0.000 | .26E-05 | 90.000 |
| 137. | 4604.505 | -.021 | .18E-05 | 0.00 | .15E-08 | 0.000 | .26E-05 | 90.000 |
| 138. | 4604.468 | -.032 | .18E-05 | 0.00 | .22E-08 | 0.000 | .26E-05 | 90.000 |
| 139. | 4604.416 | -.042 | .18E-05 | 0.00 | .30E-08 | 0.000 | .26E-05 | 90.000 |
| 140. | 4604.349 | -.052 | .18E-05 | 0.00 | .37E-08 | 0.000 | .26E-05 | 90.000 |
| 141. | 4604.269 | -.062 | .18E-05 | 0.00 | .44E-08 | 0.000 | .26E-05 | 90.000 |
| 142. | 4604.175 | -.072 | .18E-05 | 0.00 | .51E-08 | 0.000 | .26E-05 | 90.000 |
| 143. | 4604.068 | -.081 | .18E-05 | 0.00 | .58E-08 | 0.000 | .26E-05 | 90.000 |
| 144. | 4603.948 | -.090 | .18E-05 | 0.00 | .64E-08 | 0.000 | .26E-05 | 90.000 |
| 145. | 4603.817 | -.098 | .18E-05 | 0.00 | .70E-08 | 0.000 | .26E-05 | 90.000 |
| 146. | 4603.674 | -.105 | .18E-05 | 0.00 | .76E-08 | 0.000 | .26E-05 | 90.000 |
| 147. | 4603.521 | -.113 | .18E-05 | 0.00 | .82E-08 | 0.000 | .26E-05 | 90.000 |
| 148. | 4603.359 | -.119 | .18E-05 | 0.00 | .87E-08 | 0.000 | .26E-05 | 90.000 |
| 149. | 4603.187 | -.125 | .18E-05 | 0.00 | .91E-08 | 0.000 | .26E-05 | 90.000 |

Z-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4603.008 | -.130 | .18E-05 | 0.00 | .96E-08 | 0.000 | .26E-05 | 90.000 |
| 151. | 4602.822 | -.135 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 152. | 4602.630 | -.139 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 153. | 4602.432 | -.142 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 154. | 4602.231 | -.145 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 155. | 4602.027 | -.147 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 156. | 4601.820 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 157. | 4601.613 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 158. | 4601.405 | -.148 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 159. | 4601.199 | -.147 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 160. | 4600.994 | -.145 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 161. | 4600.793 | -.142 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 162. | 4600.595 | -.139 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 163. | 4600.403 | -.136 | .18E-05 | 0.00 | .11E-07 | 0.000 | .26E-05 | 90.000 |
| 164. | 4600.216 | -.131 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 165. | 4600.035 | -.126 | .18E-05 | 0.00 | .10E-07 | 0.000 | .26E-05 | 90.000 |
| 166. | 4599.862 | -.121 | .18E-05 | 0.00 | .96E-08 | 0.000 | .26E-05 | 90.000 |
| 167. | 4599.698 | -.114 | .18E-05 | 0.00 | .91E-08 | 0.000 | .26E-05 | 90.000 |
| 168. | 4599.542 | -.108 | .18E-05 | 0.00 | .86E-08 | 0.000 | .26E-05 | 90.000 |
| 169. | 4599.396 | -.100 | .18E-05 | 0.00 | .81E-08 | 0.000 | .26E-05 | 90.000 |
| 170. | 4599.261 | -.093 | .18E-05 | 0.00 | .75E-08 | 0.000 | .26E-05 | 90.000 |
| 171. | 4599.137 | -.085 | .18E-05 | 0.00 | .68E-08 | 0.000 | .26E-05 | 90.000 |
| 172. | 4599.024 | -.076 | .18E-05 | 0.00 | .62E-08 | 0.000 | .26E-05 | 90.000 |
| 173. | 4598.923 | -.068 | .18E-05 | 0.00 | .55E-08 | 0.000 | .26E-05 | 90.000 |
| 174. | 4598.834 | -.058 | .18E-05 | 0.00 | .48E-08 | 0.000 | .26E-05 | 90.000 |
| 175. | 4598.759 | -.049 | .18E-05 | 0.00 | .40E-08 | 0.000 | .26E-05 | 90.000 |
| 176. | 4598.697 | -.040 | .18E-05 | 0.00 | .32E-08 | 0.000 | .26E-05 | 90.000 |
| 177. | 4598.648 | -.030 | .18E-05 | 0.00 | .24E-08 | 0.000 | .26E-05 | 90.000 |
| 178. | 4598.613 | -.020 | .18E-05 | 0.00 | .16E-08 | 0.000 | .26E-05 | 90.000 |
| 179. | 4598.592 | -.010 | .18E-05 | 0.00 | .82E-09 | 0.000 | .26E-05 | 90.000 |
| 180. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

111-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 1. | 4580.576 | .005 | .17E-05 | 0.00 | .12E-06 | -89.921 | .25E-05 | 90.035 |
| 2. | 4580.587 | .011 | .17E-05 | 0.00 | .12E-06 | -89.843 | .25E-05 | 90.070 |
| 3. | 4580.606 | .016 | .17E-05 | 0.00 | .12E-06 | -89.765 | .25E-05 | 90.105 |
| 4. | 4580.632 | .021 | .17E-05 | 0.00 | .12E-06 | -89.687 | .25E-05 | 90.139 |
| 5. | 4580.665 | .026 | .17E-05 | 0.00 | .12E-06 | -89.611 | .25E-05 | 90.173 |
| 6. | 4580.705 | .031 | .17E-05 | 0.00 | .11E-06 | -89.535 | .25E-05 | 90.207 |
| 7. | 4580.750 | .035 | .17E-05 | 0.00 | .11E-06 | -89.461 | .25E-05 | 90.240 |
| 8. | 4580.802 | .039 | .17E-05 | 0.00 | .11E-06 | -89.388 | .25E-05 | 90.272 |
| 9. | 4580.858 | .042 | .17E-05 | 0.00 | .11E-06 | -89.317 | .25E-05 | 90.304 |
| 10. | 4580.919 | .045 | .17E-05 | 0.00 | .10E-06 | -89.248 | .25E-05 | 90.335 |
| 11. | 4580.984 | .048 | .17E-05 | 0.00 | .10E-06 | -89.181 | .25E-05 | 90.364 |
| 12. | 4581.052 | .050 | .17E-05 | 0.00 | .97E-07 | -89.116 | .25E-05 | 90.393 |
| 13. | 4581.122 | .051 | .17E-05 | 0.00 | .93E-07 | -89.053 | .25E-05 | 90.421 |
| 14. | 4581.194 | .052 | .17E-05 | 0.00 | .89E-07 | -88.993 | .25E-05 | 90.448 |
| 15. | 4581.266 | .052 | .17E-05 | 0.00 | .85E-07 | -88.936 | .25E-05 | 90.473 |
| 16. | 4581.339 | .052 | .17E-05 | 0.00 | .80E-07 | -88.882 | .25E-05 | 90.497 |
| 17. | 4581.411 | .051 | .17E-05 | 0.00 | .76E-07 | -88.831 | .25E-05 | 90.520 |
| 18. | 4581.481 | .050 | .17E-05 | 0.00 | .71E-07 | -88.783 | .25E-05 | 90.541 |
| 19. | 4581.549 | .048 | .17E-05 | 0.00 | .66E-07 | -88.738 | .25E-05 | 90.561 |
| 20. | 4581.614 | .045 | .17E-05 | 0.00 | .60E-07 | -88.697 | .25E-05 | 90.579 |
| 21. | 4581.675 | .042 | .17E-05 | 0.00 | .55E-07 | -88.659 | .25E-05 | 90.596 |
| 22. | 4581.732 | .039 | .17E-05 | 0.00 | .49E-07 | -88.625 | .25E-05 | 90.611 |
| 23. | 4581.783 | .035 | .17E-05 | 0.00 | .43E-07 | -88.595 | .25E-05 | 90.625 |
| 24. | 4581.829 | .031 | .17E-05 | 0.00 | .37E-07 | -88.569 | .25E-05 | 90.636 |
| 25. | 4581.869 | .026 | .17E-05 | 0.00 | .31E-07 | -88.546 | .25E-05 | 90.646 |
| 26. | 4581.902 | .021 | .17E-05 | 0.00 | .25E-07 | -88.528 | .25E-05 | 90.654 |
| 27. | 4581.928 | .016 | .17E-05 | 0.00 | .19E-07 | -88.514 | .25E-05 | 90.661 |
| 28. | 4581.947 | .011 | .17E-05 | 0.00 | .13E-07 | -88.503 | .25E-05 | 90.665 |
| 29. | 4581.958 | .005 | .17E-05 | 0.00 | .63E-08 | -88.497 | .25E-05 | 90.668 |
| 30. | 4581.962 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.669 |
| 31. | 4581.958 | -.005 | .17E-05 | 0.00 | .63E-08 | 91.503 | .25E-05 | 90.668 |
| 32. | 4581.947 | -.011 | .17E-05 | 0.00 | .13E-07 | 91.497 | .25E-05 | 90.665 |
| 33. | 4581.928 | -.016 | .17E-05 | 0.00 | .19E-07 | 91.486 | .25E-05 | 90.661 |
| 34. | 4581.902 | -.021 | .17E-05 | 0.00 | .25E-07 | 91.472 | .25E-05 | 90.654 |
| 35. | 4581.869 | -.026 | .17E-05 | 0.00 | .31E-07 | 91.454 | .25E-05 | 90.646 |
| 36. | 4581.829 | -.031 | .17E-05 | 0.00 | .37E-07 | 91.431 | .25E-05 | 90.636 |
| 37. | 4581.783 | -.035 | .17E-05 | 0.00 | .43E-07 | 91.405 | .25E-05 | 90.625 |
| 38. | 4581.732 | -.039 | .17E-05 | 0.00 | .49E-07 | 91.375 | .25E-05 | 90.611 |
| 39. | 4581.675 | -.042 | .17E-05 | 0.00 | .55E-07 | 91.341 | .25E-05 | 90.596 |
| 40. | 4581.614 | -.045 | .17E-05 | 0.00 | .60E-07 | 91.303 | .25E-05 | 90.579 |
| 41. | 4581.549 | -.048 | .17E-05 | 0.00 | .66E-07 | 91.262 | .25E-05 | 90.561 |
| 42. | 4581.481 | -.050 | .17E-05 | 0.00 | .71E-07 | 91.217 | .25E-05 | 90.541 |
| 43. | 4581.411 | -.051 | .17E-05 | 0.00 | .76E-07 | 91.169 | .25E-05 | 90.520 |
| 44. | 4581.339 | -.052 | .17E-05 | 0.00 | .80E-07 | 91.118 | .25E-05 | 90.497 |
| 45. | 4581.266 | -.052 | .17E-05 | 0.00 | .85E-07 | 91.064 | .25E-05 | 90.473 |
| 46. | 4581.194 | -.052 | .17E-05 | 0.00 | .89E-07 | 91.007 | .25E-05 | 90.448 |
| 47. | 4581.122 | -.051 | .17E-05 | 0.00 | .93E-07 | 90.947 | .25E-05 | 90.421 |
| 48. | 4581.052 | -.050 | .17E-05 | 0.00 | .97E-07 | 90.884 | .25E-05 | 90.393 |
| 49. | 4580.984 | -.048 | .17E-05 | 0.00 | .10E-06 | 90.819 | .25E-05 | 90.364 |

111-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4580.919 | -.045 | .17E-05 | 0.00 | .10E-06 | 90.752 | .25E-05 | 90.335 |
| 51. | 4580.858 | -.042 | .17E-05 | 0.00 | .11E-06 | 90.683 | .25E-05 | 90.304 |
| 52. | 4580.802 | -.039 | .17E-05 | 0.00 | .11E-06 | 90.612 | .25E-05 | 90.272 |
| 53. | 4580.750 | -.035 | .17E-05 | 0.00 | .11E-06 | 90.539 | .25E-05 | 90.240 |
| 54. | 4580.705 | -.031 | .17E-05 | 0.00 | .11E-06 | 90.465 | .25E-05 | 90.207 |
| 55. | 4580.665 | -.026 | .17E-05 | 0.00 | .12E-06 | 90.389 | .25E-05 | 90.173 |
| 56. | 4580.632 | -.021 | .17E-05 | 0.00 | .12E-06 | 90.313 | .25E-05 | 90.139 |
| 57. | 4580.606 | -.016 | .17E-05 | 0.00 | .12E-06 | 90.235 | .25E-05 | 90.105 |
| 58. | 4580.587 | -.011 | .17E-05 | 0.00 | .12E-06 | 90.157 | .25E-05 | 90.070 |
| 59. | 4580.576 | -.005 | .17E-05 | 0.00 | .12E-06 | 90.079 | .25E-05 | 90.035 |
| 60. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 61. | 4580.576 | .005 | .17E-05 | 0.00 | .12E-06 | 89.921 | .25E-05 | 89.965 |
| 62. | 4580.587 | .011 | .17E-05 | 0.00 | .12E-06 | 89.843 | .25E-05 | 89.930 |
| 63. | 4580.606 | .016 | .17E-05 | 0.00 | .12E-06 | 89.765 | .25E-05 | 89.895 |
| 64. | 4580.632 | .021 | .17E-05 | 0.00 | .12E-06 | 89.687 | .25E-05 | 89.861 |
| 65. | 4580.665 | .026 | .17E-05 | 0.00 | .12E-06 | 89.611 | .25E-05 | 89.827 |
| 66. | 4580.705 | .031 | .17E-05 | 0.00 | .11E-06 | 89.535 | .25E-05 | 89.793 |
| 67. | 4580.750 | .035 | .17E-05 | 0.00 | .11E-06 | 89.461 | .25E-05 | 89.760 |
| 68. | 4580.802 | .039 | .17E-05 | 0.00 | .11E-06 | 89.388 | .25E-05 | 89.728 |
| 69. | 4580.858 | .042 | .17E-05 | 0.00 | .11E-06 | 89.317 | .25E-05 | 89.696 |
| 70. | 4580.919 | .045 | .17E-05 | 0.00 | .10E-06 | 89.248 | .25E-05 | 89.665 |
| 71. | 4580.984 | .048 | .17E-05 | 0.00 | .10E-06 | 89.181 | .25E-05 | 89.636 |
| 72. | 4581.052 | .050 | .17E-05 | 0.00 | .97E-07 | 89.116 | .25E-05 | 89.607 |
| 73. | 4581.122 | .051 | .17E-05 | 0.00 | .93E-07 | 89.053 | .25E-05 | 89.579 |
| 74. | 4581.194 | .052 | .17E-05 | 0.00 | .89E-07 | 88.993 | .25E-05 | 89.552 |
| 75. | 4581.266 | .052 | .17E-05 | 0.00 | .85E-07 | 88.936 | .25E-05 | 89.527 |
| 76. | 4581.339 | .052 | .17E-05 | 0.00 | .80E-07 | 88.882 | .25E-05 | 89.503 |
| 77. | 4581.411 | .051 | .17E-05 | 0.00 | .76E-07 | 88.831 | .25E-05 | 89.480 |
| 78. | 4581.481 | .050 | .17E-05 | 0.00 | .71E-07 | 88.783 | .25E-05 | 89.459 |
| 79. | 4581.549 | .048 | .17E-05 | 0.00 | .66E-07 | 88.738 | .25E-05 | 89.439 |
| 80. | 4581.614 | .045 | .17E-05 | 0.00 | .60E-07 | 88.697 | .25E-05 | 89.421 |
| 81. | 4581.675 | .042 | .17E-05 | 0.00 | .55E-07 | 88.659 | .25E-05 | 89.404 |
| 82. | 4581.732 | .039 | .17E-05 | 0.00 | .49E-07 | 88.625 | .25E-05 | 89.389 |
| 83. | 4581.783 | .035 | .17E-05 | 0.00 | .43E-07 | 88.595 | .25E-05 | 89.375 |
| 84. | 4581.829 | .031 | .17E-05 | 0.00 | .37E-07 | 88.569 | .25E-05 | 89.364 |
| 85. | 4581.869 | .026 | .17E-05 | 0.00 | .31E-07 | 88.546 | .25E-05 | 89.354 |
| 86. | 4581.902 | .021 | .17E-05 | 0.00 | .25E-07 | 88.528 | .25E-05 | 89.346 |
| 87. | 4581.928 | .016 | .17E-05 | 0.00 | .19E-07 | 88.514 | .25E-05 | 89.339 |
| 88. | 4581.947 | .011 | .17E-05 | 0.00 | .13E-07 | 88.503 | .25E-05 | 89.335 |
| 89. | 4581.958 | .005 | .17E-05 | 0.00 | .63E-08 | 88.497 | .25E-05 | 89.332 |
| 90. | 4581.962 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.331 |
| 91. | 4581.958 | -.005 | .17E-05 | 0.00 | .63E-08 | -91.503 | .25E-05 | 89.332 |
| 92. | 4581.947 | -.011 | .17E-05 | 0.00 | .13E-07 | -91.497 | .25E-05 | 89.335 |
| 93. | 4581.928 | -.016 | .17E-05 | 0.00 | .19E-07 | -91.486 | .25E-05 | 89.339 |
| 94. | 4581.902 | -.021 | .17E-05 | 0.00 | .25E-07 | -91.472 | .25E-05 | 89.346 |
| 95. | 4581.869 | -.026 | .17E-05 | 0.00 | .31E-07 | -91.454 | .25E-05 | 89.354 |
| 96. | 4581.829 | -.031 | .17E-05 | 0.00 | .37E-07 | -91.431 | .25E-05 | 89.364 |
| 97. | 4581.783 | -.035 | .17E-05 | 0.00 | .43E-07 | -91.405 | .25E-05 | 89.375 |
| 98. | 4581.732 | -.039 | .17E-05 | 0.00 | .49E-07 | -91.375 | .25E-05 | 89.389 |
| 99. | 4581.675 | -.042 | .17E-05 | 0.00 | .55E-07 | -91.341 | .25E-05 | 89.404 |

111-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4581.614 | -.045 | .17E-05 | 0.00 | .60E-07 | -91.303 | .25E-05 | 89.421 |
| 101. | 4581.549 | -.048 | .17E-05 | 0.00 | .66E-07 | -91.262 | .25E-05 | 89.439 |
| 102. | 4581.481 | -.050 | .17E-05 | 0.00 | .71E-07 | -91.217 | .25E-05 | 89.459 |
| 103. | 4581.411 | -.051 | .17E-05 | 0.00 | .76E-07 | -91.169 | .25E-05 | 89.480 |
| 104. | 4581.339 | -.052 | .17E-05 | 0.00 | .80E-07 | -91.118 | .25E-05 | 89.503 |
| 105. | 4581.266 | -.052 | .17E-05 | 0.00 | .85E-07 | -91.064 | .25E-05 | 89.527 |
| 106. | 4581.194 | -.052 | .17E-05 | 0.00 | .89E-07 | -91.007 | .25E-05 | 89.552 |
| 107. | 4581.122 | -.051 | .17E-05 | 0.00 | .93E-07 | -90.947 | .25E-05 | 89.579 |
| 108. | 4581.052 | -.050 | .17E-05 | 0.00 | .97E-07 | -90.884 | .25E-05 | 89.607 |
| 109. | 4580.984 | -.048 | .17E-05 | 0.00 | .10E-06 | -90.819 | .25E-05 | 89.636 |
| 110. | 4580.919 | -.045 | .17E-05 | 0.00 | .10E-06 | -90.752 | .25E-05 | 89.665 |
| 111. | 4580.858 | -.042 | .17E-05 | 0.00 | .11E-06 | -90.683 | .25E-05 | 89.696 |
| 112. | 4580.802 | -.039 | .17E-05 | 0.00 | .11E-06 | -90.612 | .25E-05 | 89.728 |
| 113. | 4580.750 | -.035 | .17E-05 | 0.00 | .11E-06 | -90.539 | .25E-05 | 89.760 |
| 114. | 4580.705 | -.031 | .17E-05 | 0.00 | .11E-06 | -90.465 | .25E-05 | 89.793 |
| 115. | 4580.665 | -.026 | .17E-05 | 0.00 | .12E-06 | -90.389 | .25E-05 | 89.827 |
| 116. | 4580.632 | -.021 | .17E-05 | 0.00 | .12E-06 | -90.313 | .25E-05 | 89.861 |
| 117. | 4580.606 | -.016 | .17E-05 | 0.00 | .12E-06 | -90.235 | .25E-05 | 89.895 |
| 118. | 4580.587 | -.011 | .17E-05 | 0.00 | .12E-06 | -90.157 | .25E-05 | 89.930 |
| 119. | 4580.576 | -.005 | .17E-05 | 0.00 | .12E-06 | -90.079 | .25E-05 | 89.965 |
| 120. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 121. | 4580.576 | .005 | .17E-05 | 0.00 | .12E-06 | -89.921 | .25E-05 | 90.035 |
| 122. | 4580.587 | .011 | .17E-05 | 0.00 | .12E-06 | -89.843 | .25E-05 | 90.070 |
| 123. | 4580.606 | .016 | .17E-05 | 0.00 | .12E-06 | -89.765 | .25E-05 | 90.105 |
| 124. | 4580.632 | .021 | .17E-05 | 0.00 | .12E-06 | -89.687 | .25E-05 | 90.139 |
| 125. | 4580.665 | .026 | .17E-05 | 0.00 | .12E-06 | -89.611 | .25E-05 | 90.173 |
| 126. | 4580.705 | .031 | .17E-05 | 0.00 | .11E-06 | -89.535 | .25E-05 | 90.207 |
| 127. | 4580.750 | .035 | .17E-05 | 0.00 | .11E-06 | -89.461 | .25E-05 | 90.240 |
| 128. | 4580.802 | .039 | .17E-05 | 0.00 | .11E-06 | -89.388 | .25E-05 | 90.272 |
| 129. | 4580.858 | .042 | .17E-05 | 0.00 | .11E-06 | -89.317 | .25E-05 | 90.304 |
| 130. | 4580.919 | .045 | .17E-05 | 0.00 | .10E-06 | -89.248 | .25E-05 | 90.335 |
| 131. | 4580.984 | .048 | .17E-05 | 0.00 | .10E-06 | -89.181 | .25E-05 | 90.364 |
| 132. | 4581.052 | .050 | .17E-05 | 0.00 | .97E-07 | -89.116 | .25E-05 | 90.393 |
| 133. | 4581.122 | .051 | .17E-05 | 0.00 | .93E-07 | -89.053 | .25E-05 | 90.421 |
| 134. | 4581.194 | .052 | .17E-05 | 0.00 | .89E-07 | -88.993 | .25E-05 | 90.448 |
| 135. | 4581.266 | .052 | .17E-05 | 0.00 | .85E-07 | -88.936 | .25E-05 | 90.473 |
| 136. | 4581.339 | .052 | .17E-05 | 0.00 | .80E-07 | -88.882 | .25E-05 | 90.497 |
| 137. | 4581.411 | .051 | .17E-05 | 0.00 | .76E-07 | -88.831 | .25E-05 | 90.520 |
| 138. | 4581.481 | .050 | .17E-05 | 0.00 | .71E-07 | -88.783 | .25E-05 | 90.541 |
| 139. | 4581.549 | .048 | .17E-05 | 0.00 | .66E-07 | -88.738 | .25E-05 | 90.561 |
| 140. | 4581.614 | .045 | .17E-05 | 0.00 | .60E-07 | -88.697 | .25E-05 | 90.579 |
| 141. | 4581.675 | .042 | .17E-05 | 0.00 | .55E-07 | -88.659 | .25E-05 | 90.596 |
| 142. | 4581.732 | .039 | .17E-05 | 0.00 | .49E-07 | -88.625 | .25E-05 | 90.611 |
| 143. | 4581.783 | .035 | .17E-05 | 0.00 | .43E-07 | -88.595 | .25E-05 | 90.625 |
| 144. | 4581.829 | .031 | .17E-05 | 0.00 | .37E-07 | -88.569 | .25E-05 | 90.636 |
| 145. | 4581.869 | .026 | .17E-05 | 0.00 | .31E-07 | -88.546 | .25E-05 | 90.646 |
| 146. | 4581.902 | .021 | .17E-05 | 0.00 | .25E-07 | -88.528 | .25E-05 | 90.654 |
| 147. | 4581.928 | .016 | .17E-05 | 0.00 | .19E-07 | -88.514 | .25E-05 | 90.661 |
| 148. | 4581.947 | .011 | .17E-05 | 0.00 | .13E-07 | -88.503 | .25E-05 | 90.665 |
| 149. | 4581.958 | .005 | .17E-05 | 0.00 | .63E-08 | -88.497 | .25E-05 | 90.668 |

111-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4581.962 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.669 |
| 151. | 4581.958 | -.005 | .17E-05 | 0.00 | .63E-08 | 91.503 | .25E-05 | 90.668 |
| 152. | 4581.947 | -.011 | .17E-05 | 0.00 | .13E-07 | 91.497 | .25E-05 | 90.665 |
| 153. | 4581.928 | -.016 | .17E-05 | 0.00 | .19E-07 | 91.486 | .25E-05 | 90.661 |
| 154. | 4581.902 | -.021 | .17E-05 | 0.00 | .25E-07 | 91.472 | .25E-05 | 90.654 |
| 155. | 4581.869 | -.026 | .17E-05 | 0.00 | .31E-07 | 91.454 | .25E-05 | 90.646 |
| 156. | 4581.829 | -.031 | .17E-05 | 0.00 | .37E-07 | 91.431 | .25E-05 | 90.636 |
| 157. | 4581.783 | -.035 | .17E-05 | 0.00 | .43E-07 | 91.405 | .25E-05 | 90.625 |
| 158. | 4581.732 | -.039 | .17E-05 | 0.00 | .49E-07 | 91.375 | .25E-05 | 90.611 |
| 159. | 4581.675 | -.042 | .17E-05 | 0.00 | .55E-07 | 91.341 | .25E-05 | 90.596 |
| 160. | 4581.614 | -.045 | .17E-05 | 0.00 | .60E-07 | 91.303 | .25E-05 | 90.579 |
| 161. | 4581.549 | -.048 | .17E-05 | 0.00 | .66E-07 | 91.262 | .25E-05 | 90.561 |
| 162. | 4581.481 | -.050 | .17E-05 | 0.00 | .71E-07 | 91.217 | .25E-05 | 90.541 |
| 163. | 4581.411 | -.051 | .17E-05 | 0.00 | .76E-07 | 91.169 | .25E-05 | 90.520 |
| 164. | 4581.339 | -.052 | .17E-05 | 0.00 | .80E-07 | 91.118 | .25E-05 | 90.497 |
| 165. | 4581.266 | -.052 | .17E-05 | 0.00 | .85E-07 | 91.064 | .25E-05 | 90.473 |
| 166. | 4581.194 | -.052 | .17E-05 | 0.00 | .89E-07 | 91.007 | .25E-05 | 90.448 |
| 167. | 4581.122 | -.051 | .17E-05 | 0.00 | .93E-07 | 90.947 | .25E-05 | 90.421 |
| 168. | 4581.052 | -.050 | .17E-05 | 0.00 | .97E-07 | 90.884 | .25E-05 | 90.393 |
| 169. | 4580.984 | -.048 | .17E-05 | 0.00 | .10E-06 | 90.819 | .25E-05 | 90.364 |
| 170. | 4580.919 | -.045 | .17E-05 | 0.00 | .10E-06 | 90.752 | .25E-05 | 90.335 |
| 171. | 4580.858 | -.042 | .17E-05 | 0.00 | .11E-06 | 90.683 | .25E-05 | 90.304 |
| 172. | 4580.802 | -.039 | .17E-05 | 0.00 | .11E-06 | 90.612 | .25E-05 | 90.272 |
| 173. | 4580.750 | -.035 | .17E-05 | 0.00 | .11E-06 | 90.539 | .25E-05 | 90.240 |
| 174. | 4580.705 | -.031 | .17E-05 | 0.00 | .11E-06 | 90.465 | .25E-05 | 90.207 |
| 175. | 4580.665 | -.026 | .17E-05 | 0.00 | .12E-06 | 90.389 | .25E-05 | 90.173 |
| 176. | 4580.632 | -.021 | .17E-05 | 0.00 | .12E-06 | 90.313 | .25E-05 | 90.139 |
| 177. | 4580.606 | -.016 | .17E-05 | 0.00 | .12E-06 | 90.235 | .25E-05 | 90.105 |
| 178. | 4580.587 | -.011 | .17E-05 | 0.00 | .12E-06 | 90.157 | .25E-05 | 90.070 |
| 179. | 4580.576 | -.005 | .17E-05 | 0.00 | .12E-06 | 90.079 | .25E-05 | 90.035 |
| 180. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |

110-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4566.521 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 1. | 4566.538 | .024 | .17E-05 | 0.00 | .48E-09 | 0.000 | .25E-05 | 90.000 |
| 2. | 4566.587 | .047 | .17E-05 | 0.00 | .96E-09 | 0.000 | .25E-05 | 90.000 |
| 3. | 4566.669 | .071 | .17E-05 | 0.00 | .14E-08 | 0.000 | .25E-05 | 90.000 |
| 4. | 4566.784 | .094 | .17E-05 | 0.00 | .19E-08 | 0.000 | .25E-05 | 90.000 |
| 5. | 4566.931 | .117 | .17E-05 | 0.00 | .24E-08 | 0.000 | .25E-05 | 90.000 |
| 6. | 4567.110 | .140 | .17E-05 | 0.00 | .29E-08 | 0.000 | .25E-05 | 90.000 |
| 7. | 4567.320 | .162 | .17E-05 | 0.00 | .34E-08 | 0.000 | .25E-05 | 90.000 |
| 8. | 4567.562 | .185 | .17E-05 | 0.00 | .40E-08 | 0.000 | .25E-05 | 90.000 |
| 9. | 4567.834 | .206 | .17E-05 | 0.00 | .45E-08 | 0.000 | .25E-05 | 90.000 |
| 10. | 4568.135 | .227 | .17E-05 | 0.00 | .51E-08 | 0.000 | .25E-05 | 90.000 |
| 11. | 4568.466 | .248 | .17E-05 | 0.00 | .56E-08 | 0.000 | .25E-05 | 90.000 |
| 12. | 4568.825 | .268 | .17E-05 | 0.00 | .62E-08 | 0.000 | .25E-05 | 90.000 |
| 13. | 4569.211 | .287 | .17E-05 | 0.00 | .68E-08 | 0.000 | .25E-05 | 90.000 |
| 14. | 4569.624 | .306 | .17E-05 | 0.00 | .74E-08 | 0.000 | .25E-05 | 90.000 |
| 15. | 4570.062 | .324 | .17E-05 | 0.00 | .80E-08 | 0.000 | .25E-05 | 90.000 |
| 16. | 4570.524 | .341 | .17E-05 | 0.00 | .87E-08 | 0.000 | .25E-05 | 90.000 |
| 17. | 4571.010 | .357 | .17E-05 | 0.00 | .93E-08 | 0.000 | .25E-05 | 90.000 |
| 18. | 4571.518 | .372 | .17E-05 | 0.00 | .10E-07 | 0.000 | .25E-05 | 90.000 |
| 19. | 4572.047 | .387 | .17E-05 | 0.00 | .11E-07 | 0.000 | .25E-05 | 90.000 |
| 20. | 4572.596 | .401 | .17E-05 | 0.00 | .11E-07 | 0.000 | .25E-05 | 90.000 |
| 21. | 4573.163 | .414 | .17E-05 | 0.00 | .12E-07 | 0.000 | .25E-05 | 90.000 |
| 22. | 4573.748 | .425 | .17E-05 | 0.00 | .13E-07 | 0.000 | .25E-05 | 90.000 |
| 23. | 4574.348 | .436 | .17E-05 | 0.00 | .14E-07 | 0.000 | .25E-05 | 90.000 |
| 24. | 4574.963 | .446 | .17E-05 | 0.00 | .14E-07 | 0.000 | .25E-05 | 90.000 |
| 25. | 4575.592 | .455 | .17E-05 | 0.00 | .15E-07 | 0.000 | .25E-05 | 90.000 |
| 26. | 4576.232 | .463 | .17E-05 | 0.00 | .16E-07 | 0.000 | .25E-05 | 90.000 |
| 27. | 4576.883 | .470 | .17E-05 | 0.00 | .17E-07 | 0.000 | .25E-05 | 90.000 |
| 28. | 4577.543 | .476 | .17E-05 | 0.00 | .18E-07 | 0.000 | .25E-05 | 90.000 |
| 29. | 4578.210 | .481 | .17E-05 | 0.00 | .18E-07 | 0.000 | .25E-05 | 90.000 |
| 30. | 4578.884 | .485 | .17E-05 | 0.00 | .19E-07 | 0.000 | .25E-05 | 90.000 |
| 31. | 4579.564 | .488 | .17E-05 | 0.00 | .20E-07 | 0.000 | .25E-05 | 90.000 |
| 32. | 4580.247 | .491 | .17E-05 | 0.00 | .21E-07 | 0.000 | .25E-05 | 90.000 |
| 33. | 4580.932 | .492 | .17E-05 | 0.00 | .22E-07 | 0.000 | .25E-05 | 90.000 |
| 34. | 4581.619 | .492 | .17E-05 | 0.00 | .22E-07 | 0.000 | .25E-05 | 90.000 |
| 35. | 4582.306 | .492 | .17E-05 | 0.00 | .23E-07 | 0.000 | .25E-05 | 90.000 |
| 36. | 4582.991 | .490 | .17E-05 | 0.00 | .24E-07 | 0.000 | .25E-05 | 90.000 |
| 37. | 4583.674 | .488 | .17E-05 | 0.00 | .25E-07 | 0.000 | .25E-05 | 90.000 |
| 38. | 4584.354 | .485 | .17E-05 | 0.00 | .26E-07 | 0.000 | .25E-05 | 90.000 |
| 39. | 4585.029 | .481 | .17E-05 | 0.00 | .26E-07 | 0.000 | .25E-05 | 90.000 |
| 40. | 4585.699 | .477 | .17E-05 | 0.00 | .27E-07 | 0.000 | .25E-05 | 90.000 |
| 41. | 4586.362 | .472 | .17E-05 | 0.00 | .28E-07 | 0.000 | .25E-05 | 90.000 |
| 42. | 4587.017 | .466 | .17E-05 | 0.00 | .29E-07 | 0.000 | .25E-05 | 90.000 |
| 43. | 4587.664 | .460 | .17E-05 | 0.00 | .29E-07 | 0.000 | .25E-05 | 90.000 |
| 44. | 4588.302 | .453 | .17E-05 | 0.00 | .30E-07 | 0.000 | .25E-05 | 90.000 |
| 45. | 4588.930 | .446 | .17E-05 | 0.00 | .30E-07 | 0.000 | .25E-05 | 90.000 |
| 46. | 4589.548 | .438 | .17E-05 | 0.00 | .31E-07 | 0.000 | .25E-05 | 90.000 |
| 47. | 4590.154 | .429 | .17E-05 | 0.00 | .32E-07 | 0.000 | .25E-05 | 90.000 |
| 48. | 4590.748 | .421 | .17E-05 | 0.00 | .32E-07 | 0.000 | .25E-05 | 90.000 |
| 49. | 4591.330 | .411 | .17E-05 | 0.00 | .32E-07 | 0.000 | .25E-05 | 90.000 |

110-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4591.899 | .402 | .17E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 51. | 4592.455 | .392 | .17E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 52. | 4592.997 | .382 | .17E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 53. | 4593.525 | .372 | .17E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 54. | 4594.038 | .362 | .17E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 55. | 4594.537 | .351 | .17E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 56. | 4595.022 | .341 | .17E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 57. | 4595.492 | .330 | .17E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 58. | 4595.946 | .319 | .18E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 59. | 4596.386 | .308 | .18E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 60. | 4596.810 | .298 | .18E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 61. | 4597.219 | .287 | .18E-05 | 0.00 | .34E-07 | 0.000 | .25E-05 | 90.000 |
| 62. | 4597.613 | .276 | .18E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 63. | 4597.992 | .265 | .18E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 64. | 4598.355 | .254 | .18E-05 | 0.00 | .33E-07 | 0.000 | .25E-05 | 90.000 |
| 65. | 4598.704 | .243 | .18E-05 | 0.00 | .32E-07 | 0.000 | .25E-05 | 90.000 |
| 66. | 4599.037 | .233 | .18E-05 | 0.00 | .32E-07 | 0.000 | .25E-05 | 90.000 |
| 67. | 4599.356 | .222 | .18E-05 | 0.00 | .31E-07 | 0.000 | .25E-05 | 90.000 |
| 68. | 4599.660 | .212 | .18E-05 | 0.00 | .30E-07 | 0.000 | .25E-05 | 90.000 |
| 69. | 4599.949 | .201 | .18E-05 | 0.00 | .29E-07 | 0.000 | .25E-05 | 90.000 |
| 70. | 4600.223 | .191 | .18E-05 | 0.00 | .29E-07 | 0.000 | .25E-05 | 90.000 |
| 71. | 4600.483 | .180 | .18E-05 | 0.00 | .27E-07 | 0.000 | .25E-05 | 90.000 |
| 72. | 4600.729 | .170 | .18E-05 | 0.00 | .26E-07 | 0.000 | .25E-05 | 90.000 |
| 73. | 4600.960 | .160 | .18E-05 | 0.00 | .26E-07 | 0.000 | .25E-05 | 90.000 |
| 74. | 4601.178 | .150 | .18E-05 | 0.00 | .24E-07 | 0.000 | .25E-05 | 90.000 |
| 75. | 4601.381 | .140 | .18E-05 | 0.00 | .23E-07 | 0.000 | .25E-05 | 90.000 |
| 76. | 4601.571 | .130 | .18E-05 | 0.00 | .22E-07 | 0.000 | .25E-05 | 90.000 |
| 77. | 4601.747 | .121 | .18E-05 | 0.00 | .21E-07 | 0.000 | .25E-05 | 90.000 |
| 78. | 4601.909 | .111 | .18E-05 | 0.00 | .19E-07 | 0.000 | .25E-05 | 90.000 |
| 79. | 4602.058 | .101 | .18E-05 | 0.00 | .18E-07 | 0.000 | .25E-05 | 90.000 |
| 80. | 4602.194 | .092 | .18E-05 | 0.00 | .16E-07 | 0.000 | .25E-05 | 90.000 |
| 81. | 4602.316 | .083 | .18E-05 | 0.00 | .15E-07 | 0.000 | .25E-05 | 90.000 |
| 82. | 4602.425 | .073 | .18E-05 | 0.00 | .13E-07 | 0.000 | .25E-05 | 90.000 |
| 83. | 4602.521 | .064 | .18E-05 | 0.00 | .12E-07 | 0.000 | .25E-05 | 90.000 |
| 84. | 4602.604 | .055 | .18E-05 | 0.00 | .10E-07 | 0.000 | .25E-05 | 90.000 |
| 85. | 4602.675 | .046 | .18E-05 | 0.00 | .85E-08 | 0.000 | .25E-05 | 90.000 |
| 86. | 4602.732 | .036 | .18E-05 | 0.00 | .68E-08 | 0.000 | .25E-05 | 90.000 |
| 87. | 4602.777 | .027 | .18E-05 | 0.00 | .51E-08 | 0.000 | .25E-05 | 90.000 |
| 88. | 4602.808 | .018 | .18E-05 | 0.00 | .34E-08 | 0.000 | .25E-05 | 90.000 |
| 89. | 4602.828 | .009 | .18E-05 | 0.00 | .17E-08 | 0.000 | .25E-05 | 90.000 |
| 90. | 4602.834 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 91. | 4602.828 | -.009 | .18E-05 | 0.00 | .17E-08 | 180.000 | .25E-05 | 90.000 |
| 92. | 4602.808 | -.018 | .18E-05 | 0.00 | .34E-08 | 180.000 | .25E-05 | 90.000 |
| 93. | 4602.777 | -.027 | .18E-05 | 0.00 | .51E-08 | 180.000 | .25E-05 | 90.000 |
| 94. | 4602.732 | -.036 | .18E-05 | 0.00 | .68E-08 | 180.000 | .25E-05 | 90.000 |
| 95. | 4602.675 | -.046 | .18E-05 | 0.00 | .85E-08 | 180.000 | .25E-05 | 90.000 |
| 96. | 4602.604 | -.055 | .18E-05 | 0.00 | .10E-07 | 180.000 | .25E-05 | 90.000 |
| 97. | 4602.521 | -.064 | .18E-05 | 0.00 | .12E-07 | 180.000 | .25E-05 | 90.000 |
| 98. | 4602.425 | -.073 | .18E-05 | 0.00 | .13E-07 | 180.000 | .25E-05 | 90.000 |
| 99. | 4602.316 | -.083 | .18E-05 | 0.00 | .15E-07 | 180.000 | .25E-05 | 90.000 |

| | VW4=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4602.194 | -.092 | .18E-05 | 0.00 | .16E-07 | 180.000 | .25E-05 | 90.000 |
| 101. | 4602.058 | -.101 | .18E-05 | 0.00 | .18E-07 | 180.000 | .25E-05 | 90.000 |
| 102. | 4601.909 | -.111 | .18E-05 | 0.00 | .19E-07 | -180.000 | .25E-05 | 90.000 |
| 103. | 4601.747 | -.121 | .18E-05 | 0.00 | .21E-07 | 180.000 | .25E-05 | 90.000 |
| 104. | 4601.571 | -.130 | .18E-05 | 0.00 | .22E-07 | -180.000 | .25E-05 | 90.000 |
| 105. | 4601.381 | -.140 | .18E-05 | 0.00 | .23E-07 | 180.000 | .25E-05 | 90.000 |
| 106. | 4601.178 | -.150 | .18E-05 | 0.00 | .24E-07 | 180.000 | .25E-05 | 90.000 |
| 107. | 4600.960 | -.160 | .18E-05 | 0.00 | .26E-07 | 180.000 | .25E-05 | 90.000 |
| 108. | 4600.729 | -.170 | .18E-05 | 0.00 | .26E-07 | -180.000 | .25E-05 | 90.000 |
| 109. | 4600.483 | -.180 | .18E-05 | 0.00 | .27E-07 | 180.000 | .25E-05 | 90.000 |
| 110. | 4600.223 | -.191 | .18E-05 | 0.00 | .29E-07 | 180.000 | .25E-05 | 90.000 |
| 111. | 4599.949 | -.201 | .18E-05 | 0.00 | .29E-07 | 180.000 | .25E-05 | 90.000 |
| 112. | 4599.660 | -.212 | .18E-05 | 0.00 | .30E-07 | 180.000 | .25E-05 | 90.000 |
| 113. | 4599.356 | -.222 | .18E-05 | 0.00 | .31E-07 | 180.000 | .25E-05 | 90.000 |
| 114. | 4599.037 | -.233 | .18E-05 | 0.00 | .32E-07 | 180.000 | .25E-05 | 90.000 |
| 115. | 4598.704 | -.243 | .18E-05 | 0.00 | .32E-07 | -180.000 | .25E-05 | 90.000 |
| 116. | 4598.355 | -.254 | .18E-05 | 0.00 | .33E-07 | -180.000 | .25E-05 | 90.000 |
| 117. | 4597.992 | -.265 | .18E-05 | 0.00 | .33E-07 | 180.000 | .25E-05 | 90.000 |
| 118. | 4597.613 | -.276 | .18E-05 | 0.00 | .33E-07 | 180.000 | .25E-05 | 90.000 |
| 119. | 4597.219 | -.287 | .18E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 120. | 4596.810 | -.298 | .18E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 121. | 4596.386 | -.308 | .18E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 122. | 4595.946 | -.319 | .18E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 123. | 4595.492 | -.330 | .17E-05 | 0.00 | .34E-07 | -180.000 | .25E-05 | 90.000 |
| 124. | 4595.022 | -.341 | .17E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 125. | 4594.537 | -.351 | .17E-05 | 0.00 | .34E-07 | -180.000 | .25E-05 | 90.000 |
| 126. | 4594.038 | -.362 | .17E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 127. | 4593.525 | -.372 | .17E-05 | 0.00 | .34E-07 | 180.000 | .25E-05 | 90.000 |
| 128. | 4592.997 | -.382 | .17E-05 | 0.00 | .33E-07 | 180.000 | .25E-05 | 90.000 |
| 129. | 4592.455 | -.392 | .17E-05 | 0.00 | .33E-07 | -180.000 | .25E-05 | 90.000 |
| 130. | 4591.899 | -.402 | .17E-05 | 0.00 | .33E-07 | 180.000 | .25E-05 | 90.000 |
| 131. | 4591.330 | -.411 | .17E-05 | 0.00 | .32E-07 | 180.000 | .25E-05 | 90.000 |
| 132. | 4590.748 | -.421 | .17E-05 | 0.00 | .32E-07 | -180.000 | .25E-05 | 90.000 |
| 133. | 4590.154 | -.429 | .17E-05 | 0.00 | .32E-07 | -180.000 | .25E-05 | 90.000 |
| 134. | 4589.548 | -.438 | .17E-05 | 0.00 | .31E-07 | -180.000 | .25E-05 | 90.000 |
| 135. | 4588.930 | -.446 | .17E-05 | 0.00 | .30E-07 | 180.000 | .25E-05 | 90.000 |
| 136. | 4588.302 | -.453 | .17E-05 | 0.00 | .30E-07 | -180.000 | .25E-05 | 90.000 |
| 137. | 4587.664 | -.460 | .17E-05 | 0.00 | .29E-07 | -180.000 | .25E-05 | 90.000 |
| 138. | 4587.017 | -.466 | .17E-05 | 0.00 | .29E-07 | 180.000 | .25E-05 | 90.000 |
| 139. | 4586.362 | -.472 | .17E-05 | 0.00 | .28E-07 | 180.000 | .25E-05 | 90.000 |
| 140. | 4585.699 | -.477 | .17E-05 | 0.00 | .27E-07 | 180.000 | .25E-05 | 90.000 |
| 141. | 4585.029 | -.481 | .17E-05 | 0.00 | .26E-07 | 180.000 | .25E-05 | 90.000 |
| 142. | 4584.354 | -.485 | .17E-05 | 0.00 | .26E-07 | 180.000 | .25E-05 | 90.000 |
| 143. | 4583.674 | -.489 | .17E-05 | 0.00 | .25E-07 | 180.000 | .25E-05 | 90.000 |
| 144. | 4582.991 | -.490 | .17E-05 | 0.00 | .24E-07 | 180.000 | .25E-05 | 90.000 |
| 145. | 4582.306 | -.492 | .17E-05 | 0.00 | .23E-07 | -180.000 | .25E-05 | 90.000 |
| 146. | 4581.619 | -.492 | .17E-05 | 0.00 | .22E-07 | 180.000 | .25E-05 | 90.000 |
| 147. | 4580.932 | -.492 | .17E-05 | 0.00 | .22E-07 | 180.000 | .25E-05 | 90.000 |
| 148. | 4580.247 | -.491 | .17E-05 | 0.00 | .21E-07 | 180.000 | .25E-05 | 90.000 |
| 149. | 4579.564 | -.489 | .17E-05 | 0.00 | .20E-07 | 180.000 | .25E-05 | 90.000 |

110'-CUT YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4578.884 | -.485 | .17E-05 | 0.00 | .19E-07 | 180.000 | .25E-05 | 90.000 |
| 151. | 4578.210 | -.481 | .17E-05 | 0.00 | .18E-07 | 180.000 | .25E-05 | 90.000 |
| 152. | 4577.543 | -.476 | .17E-05 | 0.00 | .18E-07 | 180.000 | .25E-05 | 90.000 |
| 153. | 4576.883 | -.470 | .17E-05 | 0.00 | .17E-07 | 180.000 | .25E-05 | 90.000 |
| 154. | 4576.232 | -.463 | .17E-05 | 0.00 | .16E-07 | 180.000 | .25E-05 | 90.000 |
| 155. | 4575.592 | -.455 | .17E-05 | 0.00 | .15E-07 | 180.000 | .25E-05 | 90.000 |
| 156. | 4574.963 | -.446 | .17E-05 | 0.00 | .14E-07 | 180.000 | .25E-05 | 90.000 |
| 157. | 4574.348 | -.436 | .17E-05 | 0.00 | .14E-07 | 180.000 | .25E-05 | 90.000 |
| 158. | 4573.748 | -.425 | .17E-05 | 0.00 | .13E-07 | 180.000 | .25E-05 | 90.000 |
| 159. | 4573.163 | -.414 | .17E-05 | 0.00 | .12E-07 | 180.000 | .25E-05 | 90.000 |
| 160. | 4572.596 | -.401 | .17E-05 | 0.00 | .11E-07 | 180.000 | .25E-05 | 90.000 |
| 161. | 4572.047 | -.387 | .17E-05 | 0.00 | .11E-07 | 180.000 | .25E-05 | 90.000 |
| 162. | 4571.518 | -.372 | .17E-05 | 0.00 | .10E-07 | 180.000 | .25E-05 | 90.000 |
| 163. | 4571.010 | -.357 | .17E-05 | 0.00 | .93E-08 | 180.000 | .25E-05 | 90.000 |
| 164. | 4570.524 | -.341 | .17E-05 | 0.00 | .87E-08 | 180.000 | .25E-05 | 90.000 |
| 165. | 4570.062 | -.324 | .17E-05 | 0.00 | .80E-08 | 180.000 | .25E-05 | 90.000 |
| 166. | 4569.624 | -.306 | .17E-05 | 0.00 | .74E-08 | 180.000 | .25E-05 | 90.000 |
| 167. | 4569.211 | -.287 | .17E-05 | 0.00 | .68E-08 | 180.000 | .25E-05 | 90.000 |
| 168. | 4568.825 | -.268 | .17E-05 | 0.00 | .62E-08 | 180.000 | .25E-05 | 90.000 |
| 169. | 4568.466 | -.248 | .17E-05 | 0.00 | .56E-08 | 180.000 | .25E-05 | 90.000 |
| 170. | 4568.135 | -.227 | .17E-05 | 0.00 | .51E-08 | 180.000 | .25E-05 | 90.000 |
| 171. | 4567.834 | -.206 | .17E-05 | 0.00 | .45E-08 | 180.000 | .25E-05 | 90.000 |
| 172. | 4567.562 | -.185 | .17E-05 | 0.00 | .40E-08 | 180.000 | .25E-05 | 90.000 |
| 173. | 4567.320 | -.162 | .17E-05 | 0.00 | .34E-08 | 180.000 | .25E-05 | 90.000 |
| 174. | 4567.110 | -.140 | .17E-05 | 0.00 | .29E-08 | 180.000 | .25E-05 | 90.000 |
| 175. | 4566.931 | -.117 | .17E-05 | 0.00 | .24E-08 | 180.000 | .25E-05 | 90.000 |
| 176. | 4566.784 | -.094 | .17E-05 | 0.00 | .19E-08 | 180.000 | .25E-05 | 90.000 |
| 177. | 4566.669 | -.071 | .17E-05 | 0.00 | .14E-08 | 180.000 | .25E-05 | 90.000 |
| 178. | 4566.587 | -.047 | .17E-05 | 0.00 | .96E-09 | 180.000 | .25E-05 | 90.000 |
| 179. | 4566.538 | -.024 | .17E-05 | 0.00 | .48E-09 | 180.000 | .25E-05 | 90.000 |
| 180. | 4566.521 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |

X-AXIS BOULE YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4598.591 | 0.000 | .18E-05 | 0.00 | .68E-09 | 90.000 | .26E-05 | 90.000 |
| 2. | 4598.606 | 0.000 | .18E-05 | 0.00 | .14E-08 | 90.000 | .26E-05 | 90.000 |
| 3. | 4598.632 | 0.000 | .18E-05 | 0.00 | .20E-08 | 90.000 | .26E-05 | 90.000 |
| 4. | 4598.667 | 0.000 | .18E-05 | 0.00 | .27E-08 | 90.000 | .26E-05 | 90.000 |
| 5. | 4598.713 | 0.000 | .18E-05 | 0.00 | .33E-08 | 90.000 | .26E-05 | 90.000 |
| 6. | 4598.768 | 0.000 | .18E-05 | 0.00 | .40E-08 | 90.000 | .26E-05 | 90.000 |
| 7. | 4598.833 | 0.000 | .18E-05 | 0.00 | .46E-08 | 90.000 | .26E-05 | 90.000 |
| 8. | 4598.907 | 0.000 | .18E-05 | 0.00 | .52E-08 | 90.000 | .26E-05 | 90.000 |
| 9. | 4598.989 | 0.000 | .18E-05 | 0.00 | .57E-08 | 90.000 | .26E-05 | 90.000 |
| 10. | 4599.080 | 0.000 | .18E-05 | 0.00 | .63E-08 | 90.000 | .26E-05 | 90.000 |
| 11. | 4599.179 | 0.000 | .18E-05 | 0.00 | .68E-08 | 90.000 | .26E-05 | 90.000 |
| 12. | 4599.285 | 0.000 | .18E-05 | 0.00 | .72E-08 | 90.000 | .26E-05 | 90.000 |
| 13. | 4599.399 | 0.000 | .18E-05 | 0.00 | .77E-08 | 90.000 | .26E-05 | 90.000 |
| 14. | 4599.518 | 0.000 | .18E-05 | 0.00 | .81E-08 | 90.000 | .26E-05 | 90.000 |
| 15. | 4599.644 | 0.000 | .18E-05 | 0.00 | .84E-08 | 90.000 | .26E-05 | 90.000 |
| 16. | 4599.774 | 0.000 | .18E-05 | 0.00 | .88E-08 | 90.000 | .26E-05 | 90.000 |
| 17. | 4599.909 | 0.000 | .18E-05 | 0.00 | .90E-08 | 90.000 | .26E-05 | 90.000 |
| 18. | 4600.049 | 0.000 | .18E-05 | 0.00 | .93E-08 | 90.000 | .26E-05 | 90.000 |
| 19. | 4600.191 | 0.000 | .18E-05 | 0.00 | .95E-08 | 90.000 | .26E-05 | 90.000 |
| 20. | 4600.336 | 0.000 | .18E-05 | 0.00 | .96E-08 | 90.000 | .26E-05 | 90.000 |
| 21. | 4600.482 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 22. | 4600.630 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 23. | 4600.779 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 24. | 4600.927 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 25. | 4601.074 | 0.000 | .18E-05 | 0.00 | .96E-08 | 90.000 | .26E-05 | 90.000 |
| 26. | 4601.219 | 0.000 | .18E-05 | 0.00 | .95E-08 | 90.000 | .26E-05 | 90.000 |
| 27. | 4601.361 | 0.000 | .18E-05 | 0.00 | .93E-08 | 90.000 | .26E-05 | 90.000 |
| 28. | 4601.501 | 0.000 | .18E-05 | 0.00 | .91E-08 | 90.000 | .26E-05 | 90.000 |
| 29. | 4601.637 | 0.000 | .18E-05 | 0.00 | .88E-08 | 90.000 | .26E-05 | 90.000 |
| 30. | 4601.768 | 0.000 | .18E-05 | 0.00 | .85E-08 | 90.000 | .26E-05 | 90.000 |
| 31. | 4601.894 | 0.000 | .18E-05 | 0.00 | .81E-08 | 90.000 | .26E-05 | 90.000 |
| 32. | 4602.014 | 0.000 | .18E-05 | 0.00 | .77E-08 | 90.000 | .26E-05 | 90.000 |
| 33. | 4602.128 | 0.000 | .18E-05 | 0.00 | .73E-08 | 90.000 | .26E-05 | 90.000 |
| 34. | 4602.235 | 0.000 | .18E-05 | 0.00 | .68E-08 | 90.000 | .26E-05 | 90.000 |
| 35. | 4602.335 | 0.000 | .18E-05 | 0.00 | .63E-08 | 90.000 | .26E-05 | 90.000 |
| 36. | 4602.426 | 0.000 | .18E-05 | 0.00 | .58E-08 | 90.000 | .26E-05 | 90.000 |
| 37. | 4602.510 | 0.000 | .18E-05 | 0.00 | .52E-08 | 90.000 | .26E-05 | 90.000 |
| 38. | 4602.584 | 0.000 | .18E-05 | 0.00 | .46E-08 | 90.000 | .26E-05 | 90.000 |
| 39. | 4602.649 | 0.000 | .18E-05 | 0.00 | .40E-08 | 90.000 | .26E-05 | 90.000 |
| 40. | 4602.705 | 0.000 | .18E-05 | 0.00 | .34E-08 | 90.000 | .26E-05 | 90.000 |
| 41. | 4602.751 | 0.000 | .18E-05 | 0.00 | .27E-08 | 90.000 | .26E-05 | 90.000 |
| 42. | 4602.787 | 0.000 | .18E-05 | 0.00 | .20E-08 | 90.000 | .25E-05 | 90.000 |
| 43. | 4602.813 | 0.000 | .18E-05 | 0.00 | .14E-08 | 90.000 | .25E-05 | 90.000 |
| 44. | 4602.829 | 0.000 | .18E-05 | 0.00 | .68E-09 | 90.000 | .25E-05 | 90.000 |
| 45. | 4602.834 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 46. | 4602.829 | 0.000 | .18E-05 | 0.00 | .68E-09 | -90.000 | .25E-05 | 90.000 |
| 47. | 4602.813 | 0.000 | .18E-05 | 0.00 | .14E-08 | -90.000 | .25E-05 | 90.000 |
| 48. | 4602.787 | 0.000 | .18E-05 | 0.00 | .20E-08 | -90.000 | .25E-05 | 90.000 |
| 49. | 4602.751 | 0.000 | .18E-05 | 0.00 | .27E-08 | -90.000 | .26E-05 | 90.000 |

X-AXIS BOULE VAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4602.705 | 0.000 | .18E-05 | 0.00 | .34E-08 | -90.000 | .26E-05 | 90.000 |
| 51. | 4602.649 | 0.000 | .18E-05 | 0.00 | .40E-08 | -90.000 | .26E-05 | 90.000 |
| 52. | 4602.584 | 0.000 | .18E-05 | 0.00 | .46E-08 | -90.000 | .26E-05 | 90.000 |
| 53. | 4602.510 | 0.000 | .18E-05 | 0.00 | .52E-08 | -90.000 | .26E-05 | 90.000 |
| 54. | 4602.426 | 0.000 | .18E-05 | 0.00 | .58E-08 | -90.000 | .26E-05 | 90.000 |
| 55. | 4602.335 | 0.000 | .18E-05 | 0.00 | .63E-08 | -90.000 | .26E-05 | 90.000 |
| 56. | 4602.235 | 0.000 | .18E-05 | 0.00 | .68E-08 | -90.000 | .26E-05 | 90.000 |
| 57. | 4602.128 | 0.000 | .18E-05 | 0.00 | .73E-08 | -90.000 | .26E-05 | 90.000 |
| 58. | 4602.014 | 0.000 | .18E-05 | 0.00 | .77E-08 | -90.000 | .26E-05 | 90.000 |
| 59. | 4601.894 | 0.000 | .18E-05 | 0.00 | .81E-08 | -90.000 | .26E-05 | 90.000 |
| 60. | 4601.768 | 0.000 | .18E-05 | 0.00 | .85E-08 | -90.000 | .26E-05 | 90.000 |
| 61. | 4601.637 | 0.000 | .18E-05 | 0.00 | .88E-08 | -90.000 | .26E-05 | 90.000 |
| 62. | 4601.501 | 0.000 | .18E-05 | 0.00 | .91E-08 | -90.000 | .26E-05 | 90.000 |
| 63. | 4601.361 | 0.000 | .18E-05 | 0.00 | .93E-08 | -90.000 | .26E-05 | 90.000 |
| 64. | 4601.219 | 0.000 | .18E-05 | 0.00 | .95E-08 | -90.000 | .26E-05 | 90.000 |
| 65. | 4601.074 | 0.000 | .18E-05 | 0.00 | .96E-08 | -90.000 | .26E-05 | 90.000 |
| 66. | 4600.927 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 67. | 4600.779 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 68. | 4600.630 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 69. | 4600.482 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 70. | 4600.336 | 0.000 | .18E-05 | 0.00 | .96E-08 | -90.000 | .26E-05 | 90.000 |
| 71. | 4600.191 | 0.000 | .18E-05 | 0.00 | .95E-08 | -90.000 | .26E-05 | 90.000 |
| 72. | 4600.049 | 0.000 | .18E-05 | 0.00 | .93E-08 | -90.000 | .26E-05 | 90.000 |
| 73. | 4599.909 | 0.000 | .18E-05 | 0.00 | .90E-08 | -90.000 | .26E-05 | 90.000 |
| 74. | 4599.774 | 0.000 | .18E-05 | 0.00 | .88E-08 | -90.000 | .26E-05 | 90.000 |
| 75. | 4599.644 | 0.000 | .18E-05 | 0.00 | .84E-08 | -90.000 | .26E-05 | 90.000 |
| 76. | 4599.518 | 0.000 | .18E-05 | 0.00 | .81E-08 | -90.000 | .26E-05 | 90.000 |
| 77. | 4599.399 | 0.000 | .18E-05 | 0.00 | .77E-08 | -90.000 | .26E-05 | 90.000 |
| 78. | 4599.285 | 0.000 | .18E-05 | 0.00 | .72E-08 | -90.000 | .26E-05 | 90.000 |
| 79. | 4599.179 | 0.000 | .18E-05 | 0.00 | .68E-08 | -90.000 | .26E-05 | 90.000 |
| 80. | 4599.080 | 0.000 | .18E-05 | 0.00 | .63E-08 | -90.000 | .26E-05 | 90.000 |
| 81. | 4598.989 | 0.000 | .18E-05 | 0.00 | .57E-08 | -90.000 | .26E-05 | 90.000 |
| 82. | 4598.907 | 0.000 | .18E-05 | 0.00 | .52E-08 | -90.000 | .26E-05 | 90.000 |
| 83. | 4598.833 | 0.000 | .18E-05 | 0.00 | .46E-08 | -90.000 | .26E-05 | 90.000 |
| 84. | 4598.768 | 0.000 | .18E-05 | 0.00 | .40E-08 | -90.000 | .26E-05 | 90.000 |
| 85. | 4598.713 | 0.000 | .18E-05 | 0.00 | .33E-08 | -90.000 | .26E-05 | 90.000 |
| 86. | 4598.667 | 0.000 | .18E-05 | 0.00 | .27E-08 | -90.000 | .26E-05 | 90.000 |
| 87. | 4598.632 | 0.000 | .18E-05 | 0.00 | .20E-08 | -90.000 | .26E-05 | 90.000 |
| 88. | 4598.606 | 0.000 | .18E-05 | 0.00 | .14E-08 | -90.000 | .26E-05 | 90.000 |
| 89. | 4598.591 | 0.000 | .18E-05 | 0.00 | .68E-09 | -90.000 | .26E-05 | 90.000 |
| 90. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 91. | 4598.591 | 0.000 | .18E-05 | 0.00 | .68E-09 | 90.000 | .26E-05 | 90.000 |
| 92. | 4598.606 | 0.000 | .18E-05 | 0.00 | .14E-08 | 90.000 | .26E-05 | 90.000 |
| 93. | 4598.632 | 0.000 | .18E-05 | 0.00 | .20E-08 | 90.000 | .26E-05 | 90.000 |
| 94. | 4598.667 | 0.000 | .18E-05 | 0.00 | .27E-08 | 90.000 | .26E-05 | 90.000 |
| 95. | 4598.713 | 0.000 | .18E-05 | 0.00 | .33E-08 | 90.000 | .26E-05 | 90.000 |
| 96. | 4598.768 | 0.000 | .18E-05 | 0.00 | .40E-08 | 90.000 | .26E-05 | 90.000 |
| 97. | 4598.833 | 0.000 | .18E-05 | 0.00 | .46E-08 | 90.000 | .26E-05 | 90.000 |
| 98. | 4598.907 | 0.000 | .18E-05 | 0.00 | .52E-08 | 90.000 | .26E-05 | 90.000 |
| 99. | 4598.989 | 0.000 | .18E-05 | 0.00 | .57E-08 | 90.000 | .26E-05 | 90.000 |

X-AXIS BOULE YAG

| | VHH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4599.050 | 0.000 | .18E-05 | 0.00 | .63E-08 | 90.000 | .26E-05 | 90.000 |
| 101. | 4599.179 | 0.000 | .18E-05 | 0.00 | .68E-08 | 90.000 | .26E-05 | 90.000 |
| 102. | 4599.285 | 0.000 | .18E-05 | 0.00 | .72E-08 | 90.000 | .26E-05 | 90.000 |
| 103. | 4599.399 | 0.000 | .18E-05 | 0.00 | .77E-08 | 90.000 | .26E-05 | 90.000 |
| 104. | 4599.518 | 0.000 | .18E-05 | 0.00 | .81E-08 | 90.000 | .26E-05 | 90.000 |
| 105. | 4599.644 | 0.000 | .18E-05 | 0.00 | .84E-08 | 90.000 | .26E-05 | 90.000 |
| 106. | 4599.774 | 0.000 | .18E-05 | 0.00 | .88E-08 | 90.000 | .26E-05 | 90.000 |
| 107. | 4599.909 | 0.000 | .18E-05 | 0.00 | .90E-08 | 90.000 | .26E-05 | 90.000 |
| 108. | 4600.049 | 0.000 | .18E-05 | 0.00 | .93E-08 | 90.000 | .26E-05 | 90.000 |
| 109. | 4600.191 | 0.000 | .18E-05 | 0.00 | .95E-08 | 90.000 | .26E-05 | 90.000 |
| 110. | 4600.336 | 0.000 | .18E-05 | 0.00 | .96E-08 | 90.000 | .26E-05 | 90.000 |
| 111. | 4600.482 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 112. | 4600.630 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 113. | 4600.779 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 114. | 4600.927 | 0.000 | .18E-05 | 0.00 | .97E-08 | 90.000 | .26E-05 | 90.000 |
| 115. | 4601.074 | 0.000 | .18E-05 | 0.00 | .96E-08 | 90.000 | .26E-05 | 90.000 |
| 116. | 4601.219 | 0.000 | .18E-05 | 0.00 | .95E-08 | 90.000 | .26E-05 | 90.000 |
| 117. | 4601.361 | 0.000 | .18E-05 | 0.00 | .93E-08 | 90.000 | .26E-05 | 90.000 |
| 118. | 4601.501 | 0.000 | .18E-05 | 0.00 | .91E-08 | 90.000 | .26E-05 | 90.000 |
| 119. | 4601.637 | 0.000 | .18E-05 | 0.00 | .88E-08 | 90.000 | .26E-05 | 90.000 |
| 120. | 4601.768 | 0.000 | .18E-05 | 0.00 | .85E-08 | 90.000 | .26E-05 | 90.000 |
| 121. | 4601.894 | 0.000 | .18E-05 | 0.00 | .81E-08 | 90.000 | .26E-05 | 90.000 |
| 122. | 4602.014 | 0.000 | .18E-05 | 0.00 | .77E-08 | 90.000 | .26E-05 | 90.000 |
| 123. | 4602.128 | 0.000 | .18E-05 | 0.00 | .73E-08 | 90.000 | .26E-05 | 90.000 |
| 124. | 4602.235 | 0.000 | .18E-05 | 0.00 | .68E-08 | 90.000 | .26E-05 | 90.000 |
| 125. | 4602.335 | 0.000 | .18E-05 | 0.00 | .63E-08 | 90.000 | .26E-05 | 90.000 |
| 126. | 4602.426 | 0.000 | .18E-05 | 0.00 | .58E-08 | 90.000 | .26E-05 | 90.000 |
| 127. | 4602.510 | 0.000 | .18E-05 | 0.00 | .52E-08 | 90.000 | .26E-05 | 90.000 |
| 128. | 4602.584 | 0.000 | .18E-05 | 0.00 | .46E-08 | 90.000 | .26E-05 | 90.000 |
| 129. | 4602.649 | 0.000 | .18E-05 | 0.00 | .40E-08 | 90.000 | .26E-05 | 90.000 |
| 130. | 4602.705 | 0.000 | .18E-05 | 0.00 | .34E-08 | 90.000 | .26E-05 | 90.000 |
| 131. | 4602.751 | 0.000 | .18E-05 | 0.00 | .27E-08 | 90.000 | .26E-05 | 90.000 |
| 132. | 4602.787 | 0.000 | .18E-05 | 0.00 | .20E-08 | 90.000 | .25E-05 | 90.000 |
| 133. | 4602.813 | 0.000 | .18E-05 | 0.00 | .14E-08 | 90.000 | .25E-05 | 90.000 |
| 134. | 4602.829 | 0.000 | .18E-05 | 0.00 | .68E-09 | 90.000 | .25E-05 | 90.000 |
| 135. | 4602.834 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 136. | 4602.829 | 0.000 | .18E-05 | 0.00 | .68E-09 | -90.000 | .25E-05 | 90.000 |
| 137. | 4602.813 | 0.000 | .18E-05 | 0.00 | .14E-08 | -90.000 | .25E-05 | 90.000 |
| 138. | 4602.787 | 0.000 | .18E-05 | 0.00 | .20E-08 | -90.000 | .25E-05 | 90.000 |
| 139. | 4602.751 | 0.000 | .18E-05 | 0.00 | .27E-08 | -90.000 | .26E-05 | 90.000 |
| 140. | 4602.705 | 0.000 | .18E-05 | 0.00 | .34E-08 | -90.000 | .26E-05 | 90.000 |
| 141. | 4602.649 | 0.000 | .18E-05 | 0.00 | .40E-08 | -90.000 | .26E-05 | 90.000 |
| 142. | 4602.584 | 0.000 | .18E-05 | 0.00 | .46E-08 | -90.000 | .26E-05 | 90.000 |
| 143. | 4602.510 | 0.000 | .18E-05 | 0.00 | .52E-08 | -90.000 | .26E-05 | 90.000 |
| 144. | 4602.426 | 0.000 | .18E-05 | 0.00 | .58E-08 | -90.000 | .26E-05 | 90.000 |
| 145. | 4602.335 | 0.000 | .18E-05 | 0.00 | .63E-08 | -90.000 | .26E-05 | 90.000 |
| 146. | 4602.235 | 0.000 | .18E-05 | 0.00 | .68E-08 | -90.000 | .26E-05 | 90.000 |
| 147. | 4602.128 | 0.000 | .18E-05 | 0.00 | .73E-08 | -90.000 | .26E-05 | 90.000 |
| 148. | 4602.014 | 0.000 | .18E-05 | 0.00 | .77E-08 | -90.000 | .26E-05 | 90.000 |
| 149. | 4601.894 | 0.000 | .18E-05 | 0.00 | .81E-08 | -90.000 | .26E-05 | 90.000 |

X-AXIS BOULE YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4601.768 | 0.000 | .18E-05 | 0.00 | .85E-08 | -90.000 | .26E-05 | 90.000 |
| 151. | 4601.637 | 0.000 | .18E-05 | 0.00 | .88E-08 | -90.000 | .26E-05 | 90.000 |
| 152. | 4601.501 | 0.000 | .18E-05 | 0.00 | .91E-08 | -90.000 | .26E-05 | 90.000 |
| 153. | 4601.361 | 0.000 | .18E-05 | 0.00 | .93E-08 | -90.000 | .26E-05 | 90.000 |
| 154. | 4601.219 | 0.000 | .18E-05 | 0.00 | .95E-08 | -90.000 | .26E-05 | 90.000 |
| 155. | 4601.074 | 0.000 | .18E-05 | 0.00 | .96E-08 | -90.000 | .26E-05 | 90.000 |
| 156. | 4600.927 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 157. | 4600.779 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 158. | 4600.630 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 159. | 4600.482 | 0.000 | .18E-05 | 0.00 | .97E-08 | -90.000 | .26E-05 | 90.000 |
| 160. | 4600.336 | 0.000 | .18E-05 | 0.00 | .96E-08 | -90.000 | .26E-05 | 90.000 |
| 161. | 4600.191 | 0.000 | .18E-05 | 0.00 | .95E-08 | -90.000 | .26E-05 | 90.000 |
| 162. | 4600.049 | 0.000 | .18E-05 | 0.00 | .93E-08 | -90.000 | .26E-05 | 90.000 |
| 163. | 4599.909 | 0.000 | .18E-05 | 0.00 | .90E-08 | -90.000 | .26E-05 | 90.000 |
| 164. | 4599.774 | 0.000 | .18E-05 | 0.00 | .88E-08 | -90.000 | .26E-05 | 90.000 |
| 165. | 4599.644 | 0.000 | .18E-05 | 0.00 | .84E-08 | -90.000 | .26E-05 | 90.000 |
| 166. | 4599.518 | 0.000 | .18E-05 | 0.00 | .81E-08 | -90.000 | .26E-05 | 90.000 |
| 167. | 4599.399 | 0.000 | .18E-05 | 0.00 | .77E-08 | -90.000 | .26E-05 | 90.000 |
| 168. | 4599.285 | 0.000 | .18E-05 | 0.00 | .72E-08 | -90.000 | .26E-05 | 90.000 |
| 169. | 4599.179 | 0.000 | .18E-05 | 0.00 | .68E-08 | -90.000 | .26E-05 | 90.000 |
| 170. | 4599.080 | 0.000 | .18E-05 | 0.00 | .63E-08 | -90.000 | .26E-05 | 90.000 |
| 171. | 4598.989 | 0.000 | .18E-05 | 0.00 | .57E-08 | -90.000 | .26E-05 | 90.000 |
| 172. | 4598.907 | 0.000 | .18E-05 | 0.00 | .52E-08 | -90.000 | .26E-05 | 90.000 |
| 173. | 4598.833 | 0.000 | .18E-05 | 0.00 | .46E-08 | -90.000 | .26E-05 | 90.000 |
| 174. | 4598.768 | 0.000 | .18E-05 | 0.00 | .40E-08 | -90.000 | .26E-05 | 90.000 |
| 175. | 4598.713 | 0.000 | .18E-05 | 0.00 | .33E-08 | -90.000 | .26E-05 | 90.000 |
| 176. | 4598.667 | 0.000 | .18E-05 | 0.00 | .27E-08 | -90.000 | .26E-05 | 90.000 |
| 177. | 4598.632 | 0.000 | .18E-05 | 0.00 | .20E-08 | -90.000 | .26E-05 | 90.000 |
| 178. | 4598.606 | 0.000 | .18E-05 | 0.00 | .14E-08 | -90.000 | .26E-05 | 90.000 |
| 179. | 4598.591 | 0.000 | .18E-05 | 0.00 | .68E-09 | -90.000 | .26E-05 | 90.000 |
| 180. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

110-AXIS BOULE YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 1. | 4579.913 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 2. | 4579.260 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 3. | 4578.613 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 4. | 4577.975 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 5. | 4577.345 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 6. | 4576.724 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 7. | 4576.114 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 8. | 4575.516 | 0.000 | .17E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 9. | 4574.930 | 0.000 | .17E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 10. | 4574.357 | 0.000 | .17E-05 | 0.00 | .98E-07 | -90.000 | .25E-05 | 90.000 |
| 11. | 4573.799 | 0.000 | .17E-05 | 0.00 | .95E-07 | -90.000 | .25E-05 | 90.000 |
| 12. | 4573.255 | 0.000 | .17E-05 | 0.00 | .92E-07 | -90.000 | .25E-05 | 90.000 |
| 13. | 4572.728 | 0.000 | .17E-05 | 0.00 | .89E-07 | -90.000 | .25E-05 | 90.000 |
| 14. | 4572.217 | 0.000 | .17E-05 | 0.00 | .86E-07 | -90.000 | .25E-05 | 90.000 |
| 15. | 4571.724 | 0.000 | .17E-05 | 0.00 | .83E-07 | -90.000 | .25E-05 | 90.000 |
| 16. | 4571.249 | 0.000 | .17E-05 | 0.00 | .79E-07 | -90.000 | .25E-05 | 90.000 |
| 17. | 4570.793 | 0.000 | .17E-05 | 0.00 | .76E-07 | -90.000 | .25E-05 | 90.000 |
| 18. | 4570.357 | 0.000 | .17E-05 | 0.00 | .72E-07 | -90.000 | .25E-05 | 90.000 |
| 19. | 4569.941 | 0.000 | .17E-05 | 0.00 | .68E-07 | -90.000 | .25E-05 | 90.000 |
| 20. | 4569.547 | 0.000 | .17E-05 | 0.00 | .65E-07 | -90.000 | .25E-05 | 90.000 |
| 21. | 4569.174 | 0.000 | .17E-05 | 0.00 | .61E-07 | -90.000 | .25E-05 | 90.000 |
| 22. | 4568.824 | 0.000 | .17E-05 | 0.00 | .57E-07 | -90.000 | .25E-05 | 90.000 |
| 23. | 4568.497 | 0.000 | .17E-05 | 0.00 | .53E-07 | -90.000 | .25E-05 | 90.000 |
| 24. | 4568.193 | 0.000 | .17E-05 | 0.00 | .49E-07 | -90.000 | .25E-05 | 90.000 |
| 25. | 4567.914 | 0.000 | .17E-05 | 0.00 | .45E-07 | -90.000 | .25E-05 | 90.000 |
| 26. | 4567.659 | 0.000 | .17E-05 | 0.00 | .41E-07 | -90.000 | .25E-05 | 90.000 |
| 27. | 4567.429 | 0.000 | .17E-05 | 0.00 | .36E-07 | -90.000 | .25E-05 | 90.000 |
| 28. | 4567.224 | 0.000 | .17E-05 | 0.00 | .32E-07 | -90.000 | .25E-05 | 90.000 |
| 29. | 4567.045 | 0.000 | .17E-05 | 0.00 | .28E-07 | -90.000 | .25E-05 | 90.000 |
| 30. | 4566.891 | 0.000 | .17E-05 | 0.00 | .23E-07 | -90.000 | .25E-05 | 90.000 |
| 31. | 4566.764 | 0.000 | .17E-05 | 0.00 | .19E-07 | -90.000 | .25E-05 | 90.000 |
| 32. | 4566.664 | 0.000 | .17E-05 | 0.00 | .14E-07 | -90.000 | .25E-05 | 90.000 |
| 33. | 4566.590 | 0.000 | .17E-05 | 0.00 | .10E-07 | -90.000 | .25E-05 | 90.000 |
| 34. | 4566.543 | 0.000 | .17E-05 | 0.00 | .56E-08 | -90.000 | .25E-05 | 90.000 |
| 35. | 4566.522 | 0.000 | .17E-05 | 0.00 | .12E-08 | -90.000 | .25E-05 | 90.000 |
| 36. | 4566.528 | 0.000 | .17E-05 | 0.00 | .33E-08 | 90.000 | .25E-05 | 90.000 |
| 37. | 4566.561 | 0.000 | .17E-05 | 0.00 | .77E-08 | 90.000 | .25E-05 | 90.000 |
| 38. | 4566.621 | 0.000 | .17E-05 | 0.00 | .12E-07 | 90.000 | .25E-05 | 90.000 |
| 39. | 4566.708 | 0.000 | .17E-05 | 0.00 | .17E-07 | 90.000 | .25E-05 | 90.000 |
| 40. | 4566.821 | 0.000 | .17E-05 | 0.00 | .21E-07 | 90.000 | .25E-05 | 90.000 |
| 41. | 4566.960 | 0.000 | .17E-05 | 0.00 | .25E-07 | 90.000 | .25E-05 | 90.000 |
| 42. | 4567.126 | 0.000 | .17E-05 | 0.00 | .30E-07 | 90.000 | .25E-05 | 90.000 |
| 43. | 4567.317 | 0.000 | .17E-05 | 0.00 | .34E-07 | 90.000 | .25E-05 | 90.000 |
| 44. | 4567.534 | 0.000 | .17E-05 | 0.00 | .38E-07 | 90.000 | .25E-05 | 90.000 |
| 45. | 4567.776 | 0.000 | .17E-05 | 0.00 | .42E-07 | 90.000 | .25E-05 | 90.000 |
| 46. | 4568.042 | 0.000 | .17E-05 | 0.00 | .47E-07 | 90.000 | .25E-05 | 90.000 |
| 47. | 4568.333 | 0.000 | .17E-05 | 0.00 | .51E-07 | 90.000 | .25E-05 | 90.000 |
| 48. | 4568.648 | 0.000 | .17E-05 | 0.00 | .55E-07 | 90.000 | .25E-05 | 90.000 |
| 49. | 4568.986 | 0.000 | .17E-05 | 0.00 | .59E-07 | 90.000 | .25E-05 | 90.000 |

110-AXIS BOULE YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4569.347 | 0.000 | .17E-05 | 0.00 | .63E-07 | 90.000 | .25E-05 | 90.000 |
| 51. | 4569.730 | 0.000 | .17E-05 | 0.00 | .67E-07 | 90.000 | .25E-05 | 90.000 |
| 52. | 4570.134 | 0.000 | .17E-05 | 0.00 | .70E-07 | 90.000 | .25E-05 | 90.000 |
| 53. | 4570.560 | 0.000 | .17E-05 | 0.00 | .74E-07 | 90.000 | .25E-05 | 90.000 |
| 54. | 4571.005 | 0.000 | .17E-05 | 0.00 | .78E-07 | 90.000 | .25E-05 | 90.000 |
| 55. | 4571.470 | 0.000 | .17E-05 | 0.00 | .81E-07 | 90.000 | .25E-05 | 90.000 |
| 56. | 4571.954 | 0.000 | .17E-05 | 0.00 | .84E-07 | 90.000 | .25E-05 | 90.000 |
| 57. | 4572.456 | 0.000 | .17E-05 | 0.00 | .88E-07 | 90.000 | .25E-05 | 90.000 |
| 58. | 4572.974 | 0.000 | .17E-05 | 0.00 | .91E-07 | 90.000 | .25E-05 | 90.000 |
| 59. | 4573.509 | 0.000 | .17E-05 | 0.00 | .94E-07 | 90.000 | .25E-05 | 90.000 |
| 60. | 4574.060 | 0.000 | .17E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 61. | 4574.625 | 0.000 | .17E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 62. | 4575.204 | 0.000 | .17E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 63. | 4575.796 | 0.000 | .17E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 64. | 4576.400 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 65. | 4577.015 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 66. | 4577.640 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 67. | 4578.275 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 68. | 4578.917 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 69. | 4579.567 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 70. | 4580.223 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 71. | 4580.885 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 72. | 4581.551 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 73. | 4582.220 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 74. | 4582.893 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 75. | 4583.567 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 76. | 4584.241 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 77. | 4584.916 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 78. | 4585.589 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 79. | 4586.261 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 80. | 4586.930 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 81. | 4587.595 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 82. | 4588.256 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 83. | 4588.912 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 84. | 4589.561 | 0.000 | .17E-05 | 0.00 | .13E-06 | 90.000 | .25E-05 | 90.000 |
| 85. | 4590.204 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 86. | 4590.840 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 87. | 4591.467 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 88. | 4592.085 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 89. | 4592.693 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 90. | 4593.291 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 91. | 4593.878 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 92. | 4594.454 | 0.000 | .17E-05 | 0.00 | .12E-06 | 90.000 | .25E-05 | 90.000 |
| 93. | 4595.018 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 94. | 4595.569 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 95. | 4596.107 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 96. | 4596.631 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 97. | 4597.142 | 0.000 | .17E-05 | 0.00 | .11E-06 | 90.000 | .25E-05 | 90.000 |
| 98. | 4597.637 | 0.000 | .18E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |
| 99. | 4598.118 | 0.000 | .18E-05 | 0.00 | .10E-06 | 90.000 | .25E-05 | 90.000 |

110-AXIS BOULE YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4598.584 | 0.000 | .18E-05 | 0.00 | .97E-07 | 90.000 | .25E-05 | 90.000 |
| 101. | 4599.033 | 0.000 | .18E-05 | 0.00 | .95E-07 | 90.000 | .25E-05 | 90.000 |
| 102. | 4599.467 | 0.000 | .18E-05 | 0.00 | .92E-07 | 90.000 | .25E-05 | 90.000 |
| 103. | 4599.885 | 0.000 | .18E-05 | 0.00 | .89E-07 | 90.000 | .25E-05 | 90.000 |
| 104. | 4600.285 | 0.000 | .18E-05 | 0.00 | .85E-07 | 90.000 | .25E-05 | 90.000 |
| 105. | 4600.669 | 0.000 | .18E-05 | 0.00 | .82E-07 | 90.000 | .25E-05 | 90.000 |
| 106. | 4601.036 | 0.000 | .18E-05 | 0.00 | .79E-07 | 90.000 | .25E-05 | 90.000 |
| 107. | 4601.385 | 0.000 | .18E-05 | 0.00 | .75E-07 | 90.000 | .25E-05 | 90.000 |
| 108. | 4601.717 | 0.000 | .18E-05 | 0.00 | .71E-07 | 90.000 | .26E-05 | 90.000 |
| 109. | 4602.031 | 0.000 | .18E-05 | 0.00 | .68E-07 | 90.000 | .26E-05 | 90.000 |
| 110. | 4602.327 | 0.000 | .18E-05 | 0.00 | .64E-07 | 90.000 | .26E-05 | 90.000 |
| 111. | 4602.605 | 0.000 | .18E-05 | 0.00 | .60E-07 | 90.000 | .26E-05 | 90.000 |
| 112. | 4602.864 | 0.000 | .18E-05 | 0.00 | .56E-07 | 90.000 | .26E-05 | 90.000 |
| 113. | 4603.106 | 0.000 | .18E-05 | 0.00 | .52E-07 | 90.000 | .26E-05 | 90.000 |
| 114. | 4603.328 | 0.000 | .18E-05 | 0.00 | .48E-07 | 90.000 | .26E-05 | 90.000 |
| 115. | 4603.532 | 0.000 | .18E-05 | 0.00 | .44E-07 | 90.000 | .26E-05 | 90.000 |
| 116. | 4603.718 | 0.000 | .18E-05 | 0.00 | .40E-07 | 90.000 | .26E-05 | 90.000 |
| 117. | 4603.884 | 0.000 | .18E-05 | 0.00 | .36E-07 | 90.000 | .26E-05 | 90.000 |
| 118. | 4604.032 | 0.000 | .18E-05 | 0.00 | .32E-07 | 90.000 | .26E-05 | 90.000 |
| 119. | 4604.161 | 0.000 | .18E-05 | 0.00 | .27E-07 | 90.000 | .26E-05 | 90.000 |
| 120. | 4604.271 | 0.000 | .18E-05 | 0.00 | .23E-07 | 90.000 | .26E-05 | 90.000 |
| 121. | 4604.362 | 0.000 | .18E-05 | 0.00 | .19E-07 | 90.000 | .26E-05 | 90.000 |
| 122. | 4604.433 | 0.000 | .18E-05 | 0.00 | .14E-07 | 90.000 | .26E-05 | 90.000 |
| 123. | 4604.486 | 0.000 | .18E-05 | 0.00 | .99E-08 | 90.000 | .26E-05 | 90.000 |
| 124. | 4604.520 | 0.000 | .18E-05 | 0.00 | .55E-08 | 90.000 | .26E-05 | 90.000 |
| 125. | 4604.534 | 0.000 | .18E-05 | 0.00 | .12E-08 | 90.000 | .26E-05 | 90.000 |
| 126. | 4604.530 | 0.000 | .18E-05 | 0.00 | .32E-08 | -90.000 | .26E-05 | 90.000 |
| 127. | 4604.506 | 0.000 | .18E-05 | 0.00 | .76E-08 | -90.000 | .26E-05 | 90.000 |
| 128. | 4604.464 | 0.000 | .18E-05 | 0.00 | .12E-07 | -90.000 | .26E-05 | 90.000 |
| 129. | 4604.402 | 0.000 | .18E-05 | 0.00 | .16E-07 | -90.000 | .26E-05 | 90.000 |
| 130. | 4604.321 | 0.000 | .18E-05 | 0.00 | .21E-07 | -90.000 | .26E-05 | 90.000 |
| 131. | 4604.221 | 0.000 | .18E-05 | 0.00 | .25E-07 | -90.000 | .26E-05 | 90.000 |
| 132. | 4604.103 | 0.000 | .18E-05 | 0.00 | .29E-07 | -90.000 | .26E-05 | 90.000 |
| 133. | 4603.965 | 0.000 | .18E-05 | 0.00 | .33E-07 | -90.000 | .26E-05 | 90.000 |
| 134. | 4603.808 | 0.000 | .18E-05 | 0.00 | .38E-07 | -90.000 | .26E-05 | 90.000 |
| 135. | 4603.633 | 0.000 | .18E-05 | 0.00 | .42E-07 | -90.000 | .26E-05 | 90.000 |
| 136. | 4603.439 | 0.000 | .18E-05 | 0.00 | .46E-07 | -90.000 | .26E-05 | 90.000 |
| 137. | 4603.226 | 0.000 | .18E-05 | 0.00 | .50E-07 | -90.000 | .26E-05 | 90.000 |
| 138. | 4602.994 | 0.000 | .18E-05 | 0.00 | .54E-07 | -90.000 | .26E-05 | 90.000 |
| 139. | 4602.744 | 0.000 | .18E-05 | 0.00 | .58E-07 | -90.000 | .26E-05 | 90.000 |
| 140. | 4602.476 | 0.000 | .18E-05 | 0.00 | .62E-07 | -90.000 | .26E-05 | 90.000 |
| 141. | 4602.190 | 0.000 | .18E-05 | 0.00 | .66E-07 | -90.000 | .26E-05 | 90.000 |
| 142. | 4601.885 | 0.000 | .18E-05 | 0.00 | .69E-07 | -90.000 | .26E-05 | 90.000 |
| 143. | 4601.563 | 0.000 | .18E-05 | 0.00 | .73E-07 | -90.000 | .26E-05 | 90.000 |
| 144. | 4601.223 | 0.000 | .18E-05 | 0.00 | .77E-07 | -90.000 | .25E-05 | 90.000 |
| 145. | 4600.865 | 0.000 | .18E-05 | 0.00 | .80E-07 | -90.000 | .25E-05 | 90.000 |
| 146. | 4600.491 | 0.000 | .18E-05 | 0.00 | .84E-07 | -90.000 | .25E-05 | 90.000 |
| 147. | 4600.099 | 0.000 | .18E-05 | 0.00 | .87E-07 | -90.000 | .25E-05 | 90.000 |
| 148. | 4599.690 | 0.000 | .18E-05 | 0.00 | .90E-07 | -90.000 | .25E-05 | 90.000 |
| 149. | 4599.265 | 0.000 | .18E-05 | 0.00 | .93E-07 | -90.000 | .25E-05 | 90.000 |

110-AXIS BOULE YAG

| | WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4598.823 | 0.000 | .18E-05 | 0.00 | .96E-07 | -90.000 | .25E-05 | 90.000 |
| 151. | 4598.366 | 0.000 | .18E-05 | 0.00 | .99E-07 | -90.000 | .25E-05 | 90.000 |
| 152. | 4597.893 | 0.000 | .18E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 153. | 4597.406 | 0.000 | .17E-05 | 0.00 | .10E-06 | -90.000 | .25E-05 | 90.000 |
| 154. | 4596.903 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 155. | 4596.386 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 156. | 4595.855 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 157. | 4595.311 | 0.000 | .17E-05 | 0.00 | .11E-06 | -90.000 | .25E-05 | 90.000 |
| 158. | 4594.754 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 159. | 4594.184 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 160. | 4593.603 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 161. | 4593.011 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 162. | 4592.408 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 163. | 4591.795 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 164. | 4591.172 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 165. | 4590.541 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 166. | 4589.902 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 167. | 4589.256 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 168. | 4588.604 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 169. | 4587.945 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 170. | 4587.282 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 171. | 4586.615 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 172. | 4585.945 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 173. | 4585.272 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 174. | 4584.598 | 0.000 | .17E-05 | 0.00 | .13E-06 | -90.000 | .25E-05 | 90.000 |
| 175. | 4583.923 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 176. | 4583.249 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 177. | 4582.576 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 178. | 4581.904 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 179. | 4581.236 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |
| 180. | 4580.572 | 0.000 | .17E-05 | 0.00 | .12E-06 | -90.000 | .25E-05 | 90.000 |

X-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4598.545 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.067 |
| 2. | 4598.424 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.133 |
| 3. | 4598.223 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.199 |
| 4. | 4597.943 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.263 |
| 5. | 4597.586 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.327 |
| 6. | 4597.153 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.389 |
| 7. | 4596.647 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.448 |
| 8. | 4596.070 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.506 |
| 9. | 4595.426 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.561 |
| 10. | 4594.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.613 |
| 11. | 4593.950 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.662 |
| 12. | 4593.126 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.708 |
| 13. | 4592.250 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.750 |
| 14. | 4591.326 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.789 |
| 15. | 4590.360 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.823 |
| 16. | 4589.356 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.854 |
| 17. | 4588.320 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.880 |
| 18. | 4587.256 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.902 |
| 19. | 4586.171 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.920 |
| 20. | 4585.069 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.933 |
| 21. | 4583.956 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.942 |
| 22. | 4582.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.945 |
| 23. | 4581.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.945 |
| 24. | 4580.606 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.939 |
| 25. | 4579.503 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.930 |
| 26. | 4578.417 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.915 |
| 27. | 4577.352 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.896 |
| 28. | 4576.313 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.873 |
| 29. | 4575.305 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.846 |
| 30. | 4574.333 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.815 |
| 31. | 4573.402 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.779 |
| 32. | 4572.515 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.740 |
| 33. | 4571.676 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.698 |
| 34. | 4570.890 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.652 |
| 35. | 4570.160 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.603 |
| 36. | 4569.490 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.551 |
| 37. | 4568.882 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.497 |
| 38. | 4568.338 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.440 |
| 39. | 4567.863 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.381 |
| 40. | 4567.456 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.320 |
| 41. | 4567.122 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.258 |
| 42. | 4566.860 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.195 |
| 43. | 4566.672 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.130 |
| 44. | 4566.559 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.065 |
| 45. | 4566.521 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 46. | 4566.559 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.935 |
| 47. | 4566.672 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.870 |
| 48. | 4566.860 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.805 |
| 49. | 4567.122 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.742 |

X-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4567.456 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.680 |
| 51. | 4567.863 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.619 |
| 52. | 4568.338 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.560 |
| 53. | 4568.882 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.503 |
| 54. | 4569.490 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.449 |
| 55. | 4570.160 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.397 |
| 56. | 4570.890 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.348 |
| 57. | 4571.676 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.302 |
| 58. | 4572.515 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.260 |
| 59. | 4573.402 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.221 |
| 60. | 4574.333 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.185 |
| 61. | 4575.305 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.154 |
| 62. | 4576.313 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.127 |
| 63. | 4577.352 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.104 |
| 64. | 4578.417 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.085 |
| 65. | 4579.503 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.070 |
| 66. | 4580.606 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.061 |
| 67. | 4581.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.055 |
| 68. | 4582.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.055 |
| 69. | 4583.956 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.058 |
| 70. | 4585.069 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.067 |
| 71. | 4586.171 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.080 |
| 72. | 4587.256 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.098 |
| 73. | 4588.320 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.120 |
| 74. | 4589.356 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.146 |
| 75. | 4590.360 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.177 |
| 76. | 4591.326 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.211 |
| 77. | 4592.250 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.250 |
| 78. | 4593.126 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.292 |
| 79. | 4593.950 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.338 |
| 80. | 4594.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.387 |
| 81. | 4595.426 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.439 |
| 82. | 4596.070 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.494 |
| 83. | 4596.647 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.552 |
| 84. | 4597.153 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.611 |
| 85. | 4597.586 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.673 |
| 86. | 4597.943 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.737 |
| 87. | 4598.223 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.801 |
| 88. | 4598.424 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.867 |
| 89. | 4598.545 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.933 |
| 90. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 91. | 4598.545 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.067 |
| 92. | 4598.424 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.133 |
| 93. | 4598.223 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.199 |
| 94. | 4597.943 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.263 |
| 95. | 4597.586 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.327 |
| 96. | 4597.153 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.389 |
| 97. | 4596.647 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.448 |
| 98. | 4596.070 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.506 |
| 99. | 4595.426 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.561 |

X-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4594.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.613 |
| 101. | 4593.950 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.662 |
| 102. | 4593.126 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.708 |
| 103. | 4592.250 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.750 |
| 104. | 4591.326 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.789 |
| 105. | 4590.360 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.823 |
| 106. | 4589.356 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.854 |
| 107. | 4588.320 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.880 |
| 108. | 4587.256 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.902 |
| 109. | 4586.171 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.920 |
| 110. | 4585.069 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.933 |
| 111. | 4583.956 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.942 |
| 112. | 4582.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.945 |
| 113. | 4581.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.945 |
| 114. | 4580.606 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.939 |
| 115. | 4579.503 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.930 |
| 116. | 4578.417 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.915 |
| 117. | 4577.352 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.896 |
| 118. | 4576.313 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.873 |
| 119. | 4575.305 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.846 |
| 120. | 4574.333 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.815 |
| 121. | 4573.402 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.779 |
| 122. | 4572.515 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.740 |
| 123. | 4571.676 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.698 |
| 124. | 4570.890 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.652 |
| 125. | 4570.160 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.603 |
| 126. | 4569.490 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.551 |
| 127. | 4568.882 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.497 |
| 128. | 4568.338 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.440 |
| 129. | 4567.863 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.381 |
| 130. | 4567.456 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.320 |
| 131. | 4567.122 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.258 |
| 132. | 4566.860 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.195 |
| 133. | 4566.672 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.130 |
| 134. | 4566.559 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.065 |
| 135. | 4566.521 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 136. | 4566.559 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.935 |
| 137. | 4566.672 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.870 |
| 138. | 4566.860 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.805 |
| 139. | 4567.122 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.742 |
| 140. | 4567.456 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.680 |
| 141. | 4567.863 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.619 |
| 142. | 4568.338 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.560 |
| 143. | 4568.882 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.503 |
| 144. | 4569.490 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.449 |
| 145. | 4570.160 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.397 |
| 146. | 4570.890 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.348 |
| 147. | 4571.676 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.302 |
| 148. | 4572.515 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.260 |
| 149. | 4573.402 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.221 |

X-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4574.333 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.185 |
| 151. | 4575.305 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.154 |
| 152. | 4576.313 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.127 |
| 153. | 4577.352 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.104 |
| 154. | 4578.417 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.085 |
| 155. | 4579.503 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.070 |
| 156. | 4580.606 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.061 |
| 157. | 4581.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.055 |
| 158. | 4582.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.055 |
| 159. | 4583.956 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.058 |
| 160. | 4585.069 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.067 |
| 161. | 4586.171 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.080 |
| 162. | 4587.256 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.098 |
| 163. | 4588.320 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.120 |
| 164. | 4589.356 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.146 |
| 165. | 4590.360 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.177 |
| 166. | 4591.326 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.211 |
| 167. | 4592.250 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.250 |
| 168. | 4593.126 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.292 |
| 169. | 4593.950 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.338 |
| 170. | 4594.719 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.387 |
| 171. | 4595.426 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.439 |
| 172. | 4596.070 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.494 |
| 173. | 4596.647 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.552 |
| 174. | 4597.153 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.611 |
| 175. | 4597.586 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.673 |
| 176. | 4597.943 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.737 |
| 177. | 4598.223 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.801 |
| 178. | 4598.424 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.867 |
| 179. | 4598.545 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.933 |
| 180. | 4598.585 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

110-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 4604.535 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |
| 1. | 4604.505 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.041 |
| 2. | 4604.413 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.082 |
| 3. | 4604.262 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.123 |
| 4. | 4604.050 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.163 |
| 5. | 4603.781 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.202 |
| 6. | 4603.454 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.239 |
| 7. | 4603.071 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.276 |
| 8. | 4602.636 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.311 |
| 9. | 4602.149 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.344 |
| 10. | 4601.613 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.375 |
| 11. | 4601.031 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.403 |
| 12. | 4600.406 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.430 |
| 13. | 4599.741 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.454 |
| 14. | 4599.040 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.475 |
| 15. | 4598.306 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.494 |
| 16. | 4597.542 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.510 |
| 17. | 4596.753 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.523 |
| 18. | 4595.941 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.532 |
| 19. | 4595.113 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.539 |
| 20. | 4594.270 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.542 |
| 21. | 4593.418 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.542 |
| 22. | 4592.560 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.539 |
| 23. | 4591.701 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.533 |
| 24. | 4590.845 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.523 |
| 25. | 4589.995 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.511 |
| 26. | 4589.156 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.495 |
| 27. | 4588.332 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.476 |
| 28. | 4587.527 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.454 |
| 29. | 4586.743 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.429 |
| 30. | 4585.986 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.401 |
| 31. | 4585.258 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.371 |
| 32. | 4584.562 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.338 |
| 33. | 4583.903 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.303 |
| 34. | 4583.282 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.265 |
| 35. | 4582.702 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.226 |
| 36. | 4582.167 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.184 |
| 37. | 4581.678 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.141 |
| 38. | 4581.238 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.096 |
| 39. | 4580.849 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.050 |
| 40. | 4580.511 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.003 |
| 41. | 4580.228 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.955 |
| 42. | 4579.999 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.907 |
| 43. | 4579.825 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.858 |
| 44. | 4579.709 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.808 |
| 45. | 4579.649 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.759 |
| 46. | 4579.646 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.711 |
| 47. | 4579.700 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.662 |
| 48. | 4579.811 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.615 |
| 49. | 4579.978 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.568 |

110-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 4580.201 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.523 |
| 51. | 4580.477 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.479 |
| 52. | 4580.806 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.437 |
| 53. | 4581.186 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.396 |
| 54. | 4581.616 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.358 |
| 55. | 4582.093 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.322 |
| 56. | 4582.615 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.288 |
| 57. | 4583.179 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.257 |
| 58. | 4583.784 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.229 |
| 59. | 4584.425 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.203 |
| 60. | 4585.100 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.181 |
| 61. | 4585.806 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.162 |
| 62. | 4586.539 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.146 |
| 63. | 4587.296 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.134 |
| 64. | 4588.073 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.125 |
| 65. | 4588.866 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.119 |
| 66. | 4589.671 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.118 |
| 67. | 4590.485 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.120 |
| 68. | 4591.303 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.125 |
| 69. | 4592.122 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.134 |
| 70. | 4592.937 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.147 |
| 71. | 4593.743 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.163 |
| 72. | 4594.538 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.183 |
| 73. | 4595.317 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.207 |
| 74. | 4596.076 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.234 |
| 75. | 4596.812 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.264 |
| 76. | 4597.519 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.297 |
| 77. | 4598.196 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.334 |
| 78. | 4598.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.373 |
| 79. | 4599.441 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.415 |
| 80. | 4600.003 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.460 |
| 81. | 4600.522 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.507 |
| 82. | 4600.993 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.556 |
| 83. | 4601.415 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.607 |
| 84. | 4601.785 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.660 |
| 85. | 4602.102 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.714 |
| 86. | 4602.364 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.770 |
| 87. | 4602.569 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.826 |
| 88. | 4602.716 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.884 |
| 89. | 4602.804 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.942 |
| 90. | 4602.834 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.000 |
| 91. | 4602.804 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.058 |
| 92. | 4602.716 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.116 |
| 93. | 4602.569 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.174 |
| 94. | 4602.364 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.230 |
| 95. | 4602.102 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.286 |
| 96. | 4601.785 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.340 |
| 97. | 4601.415 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.393 |
| 98. | 4600.993 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.444 |
| 99. | 4600.522 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.493 |

110-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 4600.003 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.540 |
| 101. | 4599.441 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.585 |
| 102. | 4598.837 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.627 |
| 103. | 4598.196 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.666 |
| 104. | 4597.519 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.703 |
| 105. | 4596.812 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.736 |
| 106. | 4596.076 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.766 |
| 107. | 4595.317 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.793 |
| 108. | 4594.538 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.817 |
| 109. | 4593.743 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.837 |
| 110. | 4592.937 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.853 |
| 111. | 4592.122 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.866 |
| 112. | 4591.303 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.875 |
| 113. | 4590.485 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.880 |
| 114. | 4589.671 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.882 |
| 115. | 4588.866 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.881 |
| 116. | 4588.073 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.875 |
| 117. | 4587.296 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.866 |
| 118. | 4586.539 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.854 |
| 119. | 4585.806 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.838 |
| 120. | 4585.100 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.819 |
| 121. | 4584.425 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.797 |
| 122. | 4583.784 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.771 |
| 123. | 4583.179 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.743 |
| 124. | 4582.615 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.712 |
| 125. | 4582.093 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.678 |
| 126. | 4581.616 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.642 |
| 127. | 4581.186 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.604 |
| 128. | 4580.806 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.563 |
| 129. | 4580.477 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.521 |
| 130. | 4580.201 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.477 |
| 131. | 4579.978 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.432 |
| 132. | 4579.811 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.385 |
| 133. | 4579.700 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.338 |
| 134. | 4579.646 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.289 |
| 135. | 4579.649 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.241 |
| 136. | 4579.709 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.192 |
| 137. | 4579.825 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.142 |
| 138. | 4579.999 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.093 |
| 139. | 4580.228 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 90.045 |
| 140. | 4580.511 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.997 |
| 141. | 4580.849 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.950 |
| 142. | 4581.238 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.904 |
| 143. | 4581.678 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.859 |
| 144. | 4582.167 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.816 |
| 145. | 4582.702 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.774 |
| 146. | 4583.282 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.735 |
| 147. | 4583.903 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.697 |
| 148. | 4584.562 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.662 |
| 149. | 4585.258 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.629 |

110-AXIS CYLINDER YAG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 4585.986 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.599 |
| 151. | 4586.743 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.571 |
| 152. | 4587.527 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.546 |
| 153. | 4588.332 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.524 |
| 154. | 4589.156 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.505 |
| 155. | 4589.995 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.489 |
| 156. | 4590.845 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.477 |
| 157. | 4591.701 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.467 |
| 158. | 4592.560 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.461 |
| 159. | 4593.418 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .25E-05 | 89.458 |
| 160. | 4594.270 | 0.000 | .17E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.458 |
| 161. | 4595.113 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.461 |
| 162. | 4595.941 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.468 |
| 163. | 4596.753 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.477 |
| 164. | 4597.542 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.490 |
| 165. | 4598.306 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.506 |
| 166. | 4599.040 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.525 |
| 167. | 4599.741 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.546 |
| 168. | 4600.406 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.570 |
| 169. | 4601.031 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.597 |
| 170. | 4601.613 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.625 |
| 171. | 4602.149 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.656 |
| 172. | 4602.636 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.689 |
| 173. | 4603.071 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.724 |
| 174. | 4603.454 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.761 |
| 175. | 4603.781 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.798 |
| 176. | 4604.050 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.837 |
| 177. | 4604.262 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.877 |
| 178. | 4604.413 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.918 |
| 179. | 4604.505 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.959 |
| 180. | 4604.535 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.000 |

Z-CUT YTTRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3699.170 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 1. | 3699.187 | .031 | .20E-05 | 0.00 | .20E-08 | 180.000 | .28E-05 | 90.000 |
| 2. | 3699.239 | .061 | .20E-05 | 0.00 | .41E-08 | -180.000 | .28E-05 | 90.000 |
| 3. | 3699.325 | .092 | .20E-05 | 0.00 | .61E-08 | 180.000 | .28E-05 | 90.000 |
| 4. | 3699.446 | .122 | .19E-05 | 0.00 | .80E-08 | 180.000 | .28E-05 | 90.000 |
| 5. | 3699.600 | .152 | .19E-05 | 0.00 | .99E-08 | -180.000 | .28E-05 | 90.000 |
| 6. | 3699.788 | .181 | .19E-05 | 0.00 | .12E-07 | -180.000 | .28E-05 | 90.000 |
| 7. | 3700.007 | .209 | .19E-05 | 0.00 | .13E-07 | -180.000 | .28E-05 | 90.000 |
| 8. | 3700.259 | .237 | .19E-05 | 0.00 | .15E-07 | -180.000 | .28E-05 | 90.000 |
| 9. | 3700.541 | .264 | .19E-05 | 0.00 | .16E-07 | -180.000 | .28E-05 | 90.000 |
| 10. | 3700.853 | .289 | .19E-05 | 0.00 | .18E-07 | -180.000 | .28E-05 | 90.000 |
| 11. | 3701.193 | .314 | .19E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 12. | 3701.560 | .337 | .19E-05 | 0.00 | .20E-07 | -180.000 | .28E-05 | 90.000 |
| 13. | 3701.954 | .360 | .19E-05 | 0.00 | .21E-07 | 180.000 | .28E-05 | 90.000 |
| 14. | 3702.371 | .380 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 15. | 3702.811 | .400 | .19E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 16. | 3703.272 | .417 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 17. | 3703.752 | .433 | .19E-05 | 0.00 | .23E-07 | -180.000 | .28E-05 | 90.000 |
| 18. | 3704.249 | .447 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 19. | 3704.761 | .460 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 20. | 3705.286 | .470 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 21. | 3705.822 | .479 | .19E-05 | 0.00 | .21E-07 | 180.000 | .28E-05 | 90.000 |
| 22. | 3706.366 | .485 | .19E-05 | 0.00 | .20E-07 | -180.000 | .28E-05 | 90.000 |
| 23. | 3706.916 | .489 | .19E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 24. | 3707.470 | .491 | .19E-05 | 0.00 | .18E-07 | 180.000 | .28E-05 | 90.000 |
| 25. | 3708.024 | .491 | .19E-05 | 0.00 | .17E-07 | -180.000 | .28E-05 | 90.000 |
| 26. | 3708.578 | .488 | .19E-05 | 0.00 | .15E-07 | 180.000 | .28E-05 | 90.000 |
| 27. | 3709.127 | .483 | .19E-05 | 0.00 | .14E-07 | 180.000 | .28E-05 | 90.000 |
| 28. | 3709.669 | .476 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 29. | 3710.201 | .466 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 30. | 3710.721 | .454 | .19E-05 | 0.00 | .92E-08 | 180.000 | .28E-05 | 90.000 |
| 31. | 3711.226 | .439 | .19E-05 | 0.00 | .76E-08 | 180.000 | .28E-05 | 90.000 |
| 32. | 3711.713 | .421 | .19E-05 | 0.00 | .60E-08 | 180.000 | .28E-05 | 90.000 |
| 33. | 3712.178 | .402 | .19E-05 | 0.00 | .45E-08 | 180.000 | .28E-05 | 90.000 |
| 34. | 3712.620 | .379 | .19E-05 | 0.00 | .32E-08 | 180.000 | .28E-05 | 90.000 |
| 35. | 3713.035 | .354 | .19E-05 | 0.00 | .20E-08 | 180.000 | .28E-05 | 90.000 |
| 36. | 3713.421 | .327 | .19E-05 | 0.00 | .96E-09 | 180.000 | .28E-05 | 90.000 |
| 37. | 3713.774 | .298 | .19E-05 | 0.00 | .12E-09 | 180.000 | .28E-05 | 90.000 |
| 38. | 3714.093 | .266 | .19E-05 | 0.00 | .51E-09 | 0.000 | .28E-05 | 90.000 |
| 39. | 3714.375 | .232 | .19E-05 | 0.00 | .93E-09 | 0.000 | .28E-05 | 90.000 |
| 40. | 3714.618 | .197 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 41. | 3714.819 | .159 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 42. | 3714.978 | .121 | .19E-05 | 0.00 | .10E-08 | 0.000 | .28E-05 | 90.000 |
| 43. | 3715.092 | .081 | .19E-05 | 0.00 | .77E-09 | 0.000 | .28E-05 | 90.000 |
| 44. | 3715.161 | .041 | .19E-05 | 0.00 | .41E-09 | 0.000 | .28E-05 | 90.000 |
| 45. | 3715.184 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 46. | 3715.161 | -.041 | .19E-05 | 0.00 | .41E-09 | 180.000 | .28E-05 | 90.000 |
| 47. | 3715.092 | -.081 | .19E-05 | 0.00 | .77E-09 | 180.000 | .28E-05 | 90.000 |
| 48. | 3714.978 | -.121 | .19E-05 | 0.00 | .10E-08 | 180.000 | .28E-05 | 90.000 |
| 49. | 3714.819 | -.159 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |

Z-CUT YITRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3714.618 | -.197 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |
| 51. | 3714.375 | -.232 | .19E-05 | 0.00 | .93E-09 | 180.000 | .28E-05 | 90.000 |
| 52. | 3714.093 | -.266 | .19E-05 | 0.00 | .51E-09 | 180.000 | .28E-05 | 90.000 |
| 53. | 3713.774 | -.298 | .19E-05 | 0.00 | .12E-09 | 0.000 | .28E-05 | 90.000 |
| 54. | 3713.421 | -.327 | .19E-05 | 0.00 | .96E-09 | 0.000 | .28E-05 | 90.000 |
| 55. | 3713.035 | -.354 | .19E-05 | 0.00 | .20E-08 | 0.000 | .28E-05 | 90.000 |
| 56. | 3712.620 | -.379 | .19E-05 | 0.00 | .32E-08 | 0.000 | .28E-05 | 90.000 |
| 57. | 3712.178 | -.402 | .19E-05 | 0.00 | .45E-08 | 0.000 | .28E-05 | 90.000 |
| 58. | 3711.713 | -.421 | .19E-05 | 0.00 | .60E-08 | 0.000 | .28E-05 | 90.000 |
| 59. | 3711.226 | -.439 | .19E-05 | 0.00 | .76E-08 | 0.000 | .28E-05 | 90.000 |
| 60. | 3710.721 | -.454 | .19E-05 | 0.00 | .92E-08 | 0.000 | .28E-05 | 90.000 |
| 61. | 3710.201 | -.466 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 62. | 3709.669 | -.476 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 63. | 3709.127 | -.483 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 64. | 3708.578 | -.488 | .19E-05 | 0.00 | .15E-07 | 0.000 | .28E-05 | 90.000 |
| 65. | 3708.024 | -.491 | .19E-05 | 0.00 | .17E-07 | 0.000 | .28E-05 | 90.000 |
| 66. | 3707.470 | -.491 | .19E-05 | 0.00 | .18E-07 | 0.000 | .28E-05 | 90.000 |
| 67. | 3706.916 | -.489 | .19E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 68. | 3706.366 | -.485 | .19E-05 | 0.00 | .20E-07 | 0.000 | .28E-05 | 90.000 |
| 69. | 3705.822 | -.479 | .19E-05 | 0.00 | .21E-07 | 0.000 | .28E-05 | 90.000 |
| 70. | 3705.286 | -.470 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 71. | 3704.761 | -.460 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 72. | 3704.249 | -.447 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 73. | 3703.752 | -.433 | .19E-05 | 0.00 | .23E-07 | 0.000 | .28E-05 | 90.000 |
| 74. | 3703.272 | -.417 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 75. | 3702.811 | -.400 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 76. | 3702.371 | -.380 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 77. | 3701.954 | -.360 | .19E-05 | 0.00 | .21E-07 | 0.000 | .28E-05 | 90.000 |
| 78. | 3701.560 | -.337 | .19E-05 | 0.00 | .20E-07 | 0.000 | .28E-05 | 90.000 |
| 79. | 3701.193 | -.314 | .19E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 80. | 3700.853 | -.289 | .19E-05 | 0.00 | .18E-07 | 0.000 | .28E-05 | 90.000 |
| 81. | 3700.541 | -.264 | .19E-05 | 0.00 | .16E-07 | 0.000 | .28E-05 | 90.000 |
| 82. | 3700.259 | -.237 | .19E-05 | 0.00 | .15E-07 | 0.000 | .28E-05 | 90.000 |
| 83. | 3700.007 | -.209 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 84. | 3699.788 | -.181 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 85. | 3699.600 | -.152 | .19E-05 | 0.00 | .99E-08 | 0.000 | .28E-05 | 90.000 |
| 86. | 3699.446 | -.122 | .19E-05 | 0.00 | .80E-08 | 0.000 | .28E-05 | 90.000 |
| 87. | 3699.325 | -.092 | .20E-05 | 0.00 | .61E-08 | 0.000 | .28E-05 | 90.000 |
| 88. | 3699.239 | -.061 | .20E-05 | 0.00 | .41E-08 | 0.000 | .28E-05 | 90.000 |
| 89. | 3699.187 | -.031 | .20E-05 | 0.00 | .20E-08 | 0.000 | .28E-05 | 90.000 |
| 90. | 3699.170 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 91. | 3699.187 | .031 | .20E-05 | 0.00 | .20E-08 | -180.000 | .28E-05 | 90.000 |
| 92. | 3699.239 | .061 | .20E-05 | 0.00 | .41E-08 | -180.000 | .28E-05 | 90.000 |
| 93. | 3699.325 | .092 | .20E-05 | 0.00 | .61E-08 | 180.000 | .28E-05 | 90.000 |
| 94. | 3699.446 | .122 | .19E-05 | 0.00 | .80E-08 | -180.000 | .28E-05 | 90.000 |
| 95. | 3699.600 | .152 | .19E-05 | 0.00 | .99E-08 | -180.000 | .28E-05 | 90.000 |
| 96. | 3699.788 | .181 | .19E-05 | 0.00 | .12E-07 | -180.000 | .28E-05 | 90.000 |
| 97. | 3700.007 | .209 | .19E-05 | 0.00 | .13E-07 | 180.000 | .28E-05 | 90.000 |
| 98. | 3700.259 | .237 | .19E-05 | 0.00 | .15E-07 | -180.000 | .28E-05 | 90.000 |
| 99. | 3700.541 | .264 | .19E-05 | 0.00 | .16E-07 | -180.000 | .28E-05 | 90.000 |

Z-CUT YTTRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3700.853 | .289 | .19E-05 | 0.00 | .18E-07 | 180.000 | .28E-05 | 90.000 |
| 101. | 3701.193 | .314 | .19E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 102. | 3701.560 | .337 | .19E-05 | 0.00 | .20E-07 | -180.000 | .28E-05 | 90.000 |
| 103. | 3701.954 | .360 | .19E-05 | 0.00 | .21E-07 | -180.000 | .28E-05 | 90.000 |
| 104. | 3702.371 | .380 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 105. | 3702.811 | .400 | .19E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 106. | 3703.272 | .417 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 107. | 3703.752 | .433 | .19E-05 | 0.00 | .23E-07 | 180.000 | .28E-05 | 90.000 |
| 108. | 3704.249 | .447 | .19E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 109. | 3704.761 | .460 | .19E-05 | 0.00 | .22E-07 | -180.000 | .28E-05 | 90.000 |
| 110. | 3705.286 | .470 | .19E-05 | 0.00 | .22E-07 | 180.000 | .28E-05 | 90.000 |
| 111. | 3705.822 | .479 | .19E-05 | 0.00 | .21E-07 | -180.000 | .28E-05 | 90.000 |
| 112. | 3706.366 | .485 | .19E-05 | 0.00 | .20E-07 | 180.000 | .28E-05 | 90.000 |
| 113. | 3706.916 | .489 | .19E-05 | 0.00 | .19E-07 | 180.000 | .28E-05 | 90.000 |
| 114. | 3707.470 | .491 | .19E-05 | 0.00 | .18E-07 | -180.000 | .28E-05 | 90.000 |
| 115. | 3708.024 | .491 | .19E-05 | 0.00 | .17E-07 | 180.000 | .28E-05 | 90.000 |
| 116. | 3708.578 | .488 | .19E-05 | 0.00 | .15E-07 | 180.000 | .28E-05 | 90.000 |
| 117. | 3709.127 | .483 | .19E-05 | 0.00 | .14E-07 | -180.000 | .28E-05 | 90.000 |
| 118. | 3709.669 | .476 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 119. | 3710.201 | .466 | .19E-05 | 0.00 | .11E-07 | 180.000 | .28E-05 | 90.000 |
| 120. | 3710.721 | .454 | .19E-05 | 0.00 | .92E-08 | -180.000 | .28E-05 | 90.000 |
| 121. | 3711.226 | .439 | .19E-05 | 0.00 | .76E-08 | 180.000 | .28E-05 | 90.000 |
| 122. | 3711.713 | .421 | .19E-05 | 0.00 | .60E-08 | 180.000 | .28E-05 | 90.000 |
| 123. | 3712.178 | .402 | .19E-05 | 0.00 | .45E-08 | 180.000 | .28E-05 | 90.000 |
| 124. | 3712.620 | .379 | .19E-05 | 0.00 | .32E-08 | 180.000 | .28E-05 | 90.000 |
| 125. | 3713.035 | .354 | .19E-05 | 0.00 | .20E-08 | 180.000 | .28E-05 | 90.000 |
| 126. | 3713.421 | .327 | .19E-05 | 0.00 | .96E-09 | 180.000 | .28E-05 | 90.000 |
| 127. | 3713.774 | .298 | .19E-05 | 0.00 | .12E-09 | 180.000 | .28E-05 | 90.000 |
| 128. | 3714.093 | .266 | .19E-05 | 0.00 | .51E-09 | 0.000 | .28E-05 | 90.000 |
| 129. | 3714.375 | .232 | .19E-05 | 0.00 | .93E-09 | 0.000 | .28E-05 | 90.000 |
| 130. | 3714.618 | .197 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 131. | 3714.819 | .159 | .19E-05 | 0.00 | .12E-08 | 0.000 | .28E-05 | 90.000 |
| 132. | 3714.978 | .121 | .19E-05 | 0.00 | .10E-08 | 0.000 | .28E-05 | 90.000 |
| 133. | 3715.092 | .081 | .19E-05 | 0.00 | .77E-09 | 0.000 | .28E-05 | 90.000 |
| 134. | 3715.161 | .041 | .19E-05 | 0.00 | .41E-09 | 0.000 | .28E-05 | 90.000 |
| 135. | 3715.184 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 136. | 3715.161 | -.041 | .19E-05 | 0.00 | .41E-09 | 180.000 | .28E-05 | 90.000 |
| 137. | 3715.092 | -.081 | .19E-05 | 0.00 | .77E-09 | 180.000 | .28E-05 | 90.000 |
| 138. | 3714.978 | -.121 | .19E-05 | 0.00 | .10E-08 | 180.000 | .28E-05 | 90.000 |
| 139. | 3714.819 | -.159 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |
| 140. | 3714.618 | -.197 | .19E-05 | 0.00 | .12E-08 | 180.000 | .28E-05 | 90.000 |
| 141. | 3714.375 | -.232 | .19E-05 | 0.00 | .93E-09 | 180.000 | .28E-05 | 90.000 |
| 142. | 3714.093 | -.266 | .19E-05 | 0.00 | .51E-09 | 180.000 | .28E-05 | 90.000 |
| 143. | 3713.774 | -.298 | .19E-05 | 0.00 | .12E-09 | 0.000 | .28E-05 | 90.000 |
| 144. | 3713.421 | -.327 | .19E-05 | 0.00 | .96E-09 | 0.000 | .28E-05 | 90.000 |
| 145. | 3713.035 | -.354 | .19E-05 | 0.00 | .20E-08 | 0.000 | .28E-05 | 90.000 |
| 146. | 3712.620 | -.379 | .19E-05 | 0.00 | .32E-08 | 0.000 | .28E-05 | 90.000 |
| 147. | 3712.178 | -.402 | .19E-05 | 0.00 | .45E-08 | 0.000 | .28E-05 | 90.000 |
| 148. | 3711.713 | -.421 | .19E-05 | 0.00 | .60E-08 | 0.000 | .28E-05 | 90.000 |
| 149. | 3711.226 | -.439 | .19E-05 | 0.00 | .76E-08 | 0.000 | .28E-05 | 90.000 |

Z-CUT YITRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3710.721 | -.454 | .19E-05 | 0.00 | .92E-08 | 0.000 | .28E-05 | 90.000 |
| 151. | 3710.201 | -.466 | .19E-05 | 0.00 | .11E-07 | 0.000 | .28E-05 | 90.000 |
| 152. | 3709.669 | -.476 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 153. | 3709.127 | -.483 | .19E-05 | 0.00 | .14E-07 | 0.000 | .28E-05 | 90.000 |
| 154. | 3708.578 | -.488 | .19E-05 | 0.00 | .15E-07 | 0.000 | .28E-05 | 90.000 |
| 155. | 3708.024 | -.491 | .19E-05 | 0.00 | .17E-07 | 0.000 | .28E-05 | 90.000 |
| 156. | 3707.470 | -.491 | .19E-05 | 0.00 | .18E-07 | 0.000 | .28E-05 | 90.000 |
| 157. | 3706.916 | -.489 | .19E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 158. | 3706.366 | -.485 | .19E-05 | 0.00 | .20E-07 | 0.000 | .28E-05 | 90.000 |
| 159. | 3705.822 | -.479 | .19E-05 | 0.00 | .21E-07 | 0.000 | .28E-05 | 90.000 |
| 160. | 3705.286 | -.470 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 161. | 3704.761 | -.460 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 162. | 3704.249 | -.447 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 163. | 3703.752 | -.433 | .19E-05 | 0.00 | .23E-07 | 0.000 | .28E-05 | 90.000 |
| 164. | 3703.272 | -.417 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 165. | 3702.811 | -.400 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 166. | 3702.371 | -.380 | .19E-05 | 0.00 | .22E-07 | 0.000 | .28E-05 | 90.000 |
| 167. | 3701.954 | -.360 | .19E-05 | 0.00 | .21E-07 | 0.000 | .28E-05 | 90.000 |
| 168. | 3701.560 | -.337 | .19E-05 | 0.00 | .20E-07 | 0.000 | .28E-05 | 90.000 |
| 169. | 3701.193 | -.314 | .19E-05 | 0.00 | .19E-07 | 0.000 | .28E-05 | 90.000 |
| 170. | 3700.853 | -.289 | .19E-05 | 0.00 | .18E-07 | 0.000 | .28E-05 | 90.000 |
| 171. | 3700.541 | -.264 | .19E-05 | 0.00 | .16E-07 | 0.000 | .28E-05 | 90.000 |
| 172. | 3700.259 | -.237 | .19E-05 | 0.00 | .15E-07 | 0.000 | .28E-05 | 90.000 |
| 173. | 3700.007 | -.209 | .19E-05 | 0.00 | .13E-07 | 0.000 | .28E-05 | 90.000 |
| 174. | 3699.788 | -.181 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 175. | 3699.600 | -.152 | .19E-05 | 0.00 | .99E-08 | 0.000 | .28E-05 | 90.000 |
| 176. | 3699.446 | -.122 | .19E-05 | 0.00 | .80E-08 | 0.000 | .28E-05 | 90.000 |
| 177. | 3699.325 | -.092 | .20E-05 | 0.00 | .61E-08 | 0.000 | .28E-05 | 90.000 |
| 178. | 3699.239 | -.061 | .20E-05 | 0.00 | .41E-08 | 0.000 | .28E-05 | 90.000 |
| 179. | 3699.187 | -.031 | .20E-05 | 0.00 | .20E-08 | 0.000 | .28E-05 | 90.000 |
| 180. | 3699.170 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3614.266 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 90.000 |
| 1. | 3614.310 | .080 | .18E-05 | 0.00 | .24E-08 | 0.000 | .27E-05 | 90.000 |
| 2. | 3614.442 | .159 | .18E-05 | 0.00 | .49E-08 | 0.000 | .27E-05 | 90.000 |
| 3. | 3614.661 | .239 | .18E-05 | 0.00 | .74E-08 | 0.000 | .27E-05 | 90.000 |
| 4. | 3614.967 | .317 | .18E-05 | 0.00 | .98E-08 | 0.000 | .27E-05 | 90.000 |
| 5. | 3615.359 | .395 | .18E-05 | 0.00 | .12E-07 | 0.000 | .27E-05 | 90.000 |
| 6. | 3615.836 | .472 | .18E-05 | 0.00 | .15E-07 | 0.000 | .27E-05 | 90.000 |
| 7. | 3616.398 | .547 | .18E-05 | 0.00 | .17E-07 | 0.000 | .27E-05 | 90.000 |
| 8. | 3617.041 | .621 | .18E-05 | 0.00 | .20E-07 | 0.000 | .27E-05 | 90.000 |
| 9. | 3617.766 | .694 | .18E-05 | 0.00 | .23E-07 | 0.000 | .27E-05 | 90.000 |
| 10. | 3618.570 | .764 | .18E-05 | 0.00 | .25E-07 | 0.000 | .27E-05 | 90.000 |
| 11. | 3619.450 | .833 | .18E-05 | 0.00 | .28E-07 | 0.000 | .27E-05 | 90.000 |
| 12. | 3620.406 | .899 | .18E-05 | 0.00 | .31E-07 | 0.000 | .27E-05 | 90.000 |
| 13. | 3621.433 | .964 | .18E-05 | 0.00 | .33E-07 | 0.000 | .27E-05 | 90.000 |
| 14. | 3622.531 | 1.025 | .18E-05 | 0.00 | .36E-07 | 0.000 | .27E-05 | 90.000 |
| 15. | 3623.695 | 1.084 | .18E-05 | 0.00 | .39E-07 | 0.000 | .27E-05 | 90.000 |
| 16. | 3624.924 | 1.141 | .18E-05 | 0.00 | .42E-07 | 0.000 | .27E-05 | 90.000 |
| 17. | 3626.213 | 1.194 | .18E-05 | 0.00 | .45E-07 | 0.000 | .27E-05 | 90.000 |
| 18. | 3627.561 | 1.244 | .18E-05 | 0.00 | .48E-07 | 0.000 | .27E-05 | 90.000 |
| 19. | 3628.962 | 1.291 | .18E-05 | 0.00 | .51E-07 | 0.000 | .27E-05 | 90.000 |
| 20. | 3630.415 | 1.335 | .18E-05 | 0.00 | .54E-07 | 0.000 | .27E-05 | 90.000 |
| 21. | 3631.914 | 1.375 | .18E-05 | 0.00 | .57E-07 | 0.000 | .27E-05 | 90.000 |
| 22. | 3633.457 | 1.413 | .18E-05 | 0.00 | .60E-07 | 0.000 | .27E-05 | 90.000 |
| 23. | 3635.040 | 1.446 | .18E-05 | 0.00 | .63E-07 | 0.000 | .27E-05 | 90.000 |
| 24. | 3636.659 | 1.476 | .18E-05 | 0.00 | .66E-07 | 0.000 | .27E-05 | 90.000 |
| 25. | 3638.310 | 1.502 | .18E-05 | 0.00 | .69E-07 | 0.000 | .27E-05 | 90.000 |
| 26. | 3639.989 | 1.525 | .18E-05 | 0.00 | .72E-07 | 0.000 | .27E-05 | 90.000 |
| 27. | 3641.692 | 1.544 | .18E-05 | 0.00 | .75E-07 | 0.000 | .27E-05 | 90.000 |
| 28. | 3643.415 | 1.560 | .18E-05 | 0.00 | .77E-07 | 0.000 | .27E-05 | 90.000 |
| 29. | 3645.154 | 1.572 | .18E-05 | 0.00 | .80E-07 | 0.000 | .27E-05 | 90.000 |
| 30. | 3646.906 | 1.581 | .18E-05 | 0.00 | .83E-07 | 0.000 | .27E-05 | 90.000 |
| 31. | 3648.667 | 1.586 | .18E-05 | 0.00 | .85E-07 | 0.000 | .27E-05 | 90.000 |
| 32. | 3650.432 | 1.588 | .18E-05 | 0.00 | .88E-07 | 0.000 | .27E-05 | 90.000 |
| 33. | 3652.198 | 1.587 | .18E-05 | 0.00 | .90E-07 | 0.000 | .27E-05 | 90.000 |
| 34. | 3653.963 | 1.583 | .18E-05 | 0.00 | .92E-07 | 0.000 | .27E-05 | 90.000 |
| 35. | 3655.722 | 1.576 | .18E-05 | 0.00 | .95E-07 | 0.000 | .27E-05 | 90.000 |
| 36. | 3657.473 | 1.566 | .18E-05 | 0.00 | .96E-07 | 0.000 | .27E-05 | 90.000 |
| 37. | 3659.213 | 1.554 | .18E-05 | 0.00 | .98E-07 | 0.000 | .27E-05 | 90.000 |
| 38. | 3660.938 | 1.540 | .18E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 39. | 3662.647 | 1.524 | .18E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 40. | 3664.338 | 1.505 | .18E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 41. | 3666.008 | 1.486 | .18E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 42. | 3667.657 | 1.465 | .18E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 43. | 3669.281 | 1.442 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 44. | 3670.881 | 1.419 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 45. | 3672.456 | 1.395 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 46. | 3674.004 | 1.371 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 47. | 3675.524 | 1.346 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 48. | 3677.018 | 1.321 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 49. | 3678.484 | 1.295 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |

110-CUT YTTRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3679.922 | 1.270 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 51. | 3681.331 | 1.245 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 52. | 3682.713 | 1.219 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 53. | 3684.067 | 1.193 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 54. | 3685.392 | 1.168 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 55. | 3686.689 | 1.142 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 56. | 3687.958 | 1.116 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 57. | 3689.198 | 1.091 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 58. | 3690.410 | 1.065 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 59. | 3691.592 | 1.038 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 60. | 3692.745 | 1.012 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 61. | 3693.868 | .985 | .18E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 62. | 3694.960 | .957 | .19E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 63. | 3696.022 | .929 | .19E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 64. | 3697.053 | .901 | .19E-05 | 0.00 | .11E-06 | 0.000 | .27E-05 | 90.000 |
| 65. | 3698.052 | .872 | .19E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 66. | 3699.018 | .843 | .19E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 67. | 3699.951 | .813 | .19E-05 | 0.00 | .10E-06 | 0.000 | .27E-05 | 90.000 |
| 68. | 3700.850 | .782 | .19E-05 | 0.00 | .99E-07 | 0.000 | .27E-05 | 90.000 |
| 69. | 3701.715 | .751 | .19E-05 | 0.00 | .96E-07 | 0.000 | .27E-05 | 90.000 |
| 70. | 3702.545 | .720 | .19E-05 | 0.00 | .94E-07 | 0.000 | .27E-05 | 90.000 |
| 71. | 3703.339 | .688 | .19E-05 | 0.00 | .91E-07 | 0.000 | .27E-05 | 90.000 |
| 72. | 3704.096 | .655 | .19E-05 | 0.00 | .88E-07 | 0.000 | .27E-05 | 90.000 |
| 73. | 3704.817 | .622 | .19E-05 | 0.00 | .84E-07 | 0.000 | .27E-05 | 90.000 |
| 74. | 3705.500 | .588 | .19E-05 | 0.00 | .81E-07 | 0.000 | .28E-05 | 90.000 |
| 75. | 3706.144 | .554 | .19E-05 | 0.00 | .77E-07 | 0.000 | .28E-05 | 90.000 |
| 76. | 3706.750 | .519 | .19E-05 | 0.00 | .73E-07 | 0.000 | .28E-05 | 90.000 |
| 77. | 3707.317 | .484 | .19E-05 | 0.00 | .69E-07 | 0.000 | .28E-05 | 90.000 |
| 78. | 3707.843 | .448 | .19E-05 | 0.00 | .64E-07 | 0.000 | .28E-05 | 90.000 |
| 79. | 3708.330 | .412 | .19E-05 | 0.00 | .60E-07 | 0.000 | .28E-05 | 90.000 |
| 80. | 3708.775 | .376 | .19E-05 | 0.00 | .55E-07 | 0.000 | .28E-05 | 90.000 |
| 81. | 3709.179 | .340 | .19E-05 | 0.00 | .50E-07 | 0.000 | .28E-05 | 90.000 |
| 82. | 3709.542 | .303 | .19E-05 | 0.00 | .45E-07 | 0.000 | .28E-05 | 90.000 |
| 83. | 3709.863 | .265 | .19E-05 | 0.00 | .40E-07 | 0.000 | .28E-05 | 90.000 |
| 84. | 3710.142 | .228 | .19E-05 | 0.00 | .34E-07 | 0.000 | .28E-05 | 90.000 |
| 85. | 3710.378 | .190 | .19E-05 | 0.00 | .29E-07 | 0.000 | .28E-05 | 90.000 |
| 86. | 3710.572 | .152 | .19E-05 | 0.00 | .23E-07 | 0.000 | .28E-05 | 90.000 |
| 87. | 3710.722 | .114 | .19E-05 | 0.00 | .17E-07 | 0.000 | .28E-05 | 90.000 |
| 88. | 3710.830 | .076 | .19E-05 | 0.00 | .12E-07 | 0.000 | .28E-05 | 90.000 |
| 89. | 3710.895 | .038 | .19E-05 | 0.00 | .58E-08 | 0.000 | .28E-05 | 90.000 |
| 90. | 3710.916 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.000 |
| 91. | 3710.895 | -.038 | .19E-05 | 0.00 | .58E-08 | -180.000 | .28E-05 | 90.000 |
| 92. | 3710.830 | -.076 | .19E-05 | 0.00 | .12E-07 | 180.000 | .28E-05 | 90.000 |
| 93. | 3710.722 | -.114 | .19E-05 | 0.00 | .17E-07 | -180.000 | .28E-05 | 90.000 |
| 94. | 3710.572 | -.152 | .19E-05 | 0.00 | .23E-07 | 180.000 | .28E-05 | 90.000 |
| 95. | 3710.378 | -.190 | .19E-05 | 0.00 | .29E-07 | 180.000 | .28E-05 | 90.000 |
| 96. | 3710.142 | -.228 | .19E-05 | 0.00 | .34E-07 | 180.000 | .28E-05 | 90.000 |
| 97. | 3709.863 | -.265 | .19E-05 | 0.00 | .40E-07 | 180.000 | .28E-05 | 90.000 |
| 98. | 3709.542 | -.303 | .19E-05 | 0.00 | .45E-07 | 180.000 | .28E-05 | 90.000 |
| 99. | 3709.179 | -.340 | .19E-05 | 0.00 | .50E-07 | 180.000 | .28E-05 | 90.000 |

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3708.775 | -.376 | .19E-05 | 0.00 | .55E-07 | 180.000 | .28E-05 | 90.000 |
| 101. | 3708.330 | -.412 | .19E-05 | 0.00 | .60E-07 | 180.000 | .28E-05 | 90.000 |
| 102. | 3707.843 | -.448 | .19E-05 | 0.00 | .64E-07 | 180.000 | .28E-05 | 90.000 |
| 103. | 3707.317 | -.484 | .19E-05 | 0.00 | .69E-07 | 180.000 | .28E-05 | 90.000 |
| 104. | 3706.750 | -.519 | .19E-05 | 0.00 | .73E-07 | 180.000 | .28E-05 | 90.000 |
| 105. | 3706.144 | -.554 | .19E-05 | 0.00 | .77E-07 | 180.000 | .28E-05 | 90.000 |
| 106. | 3705.500 | -.588 | .19E-05 | 0.00 | .81E-07 | -180.000 | .28E-05 | 90.000 |
| 107. | 3704.817 | -.622 | .19E-05 | 0.00 | .84E-07 | 180.000 | .27E-05 | 90.000 |
| 108. | 3704.096 | -.655 | .19E-05 | 0.00 | .88E-07 | 180.000 | .27E-05 | 90.000 |
| 109. | 3703.339 | -.688 | .19E-05 | 0.00 | .91E-07 | 180.000 | .27E-05 | 90.000 |
| 110. | 3702.545 | -.720 | .19E-05 | 0.00 | .94E-07 | 180.000 | .27E-05 | 90.000 |
| 111. | 3701.715 | -.751 | .19E-05 | 0.00 | .96E-07 | 180.000 | .27E-05 | 90.000 |
| 112. | 3700.850 | -.782 | .19E-05 | 0.00 | .99E-07 | 180.000 | .27E-05 | 90.000 |
| 113. | 3699.951 | -.813 | .19E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 114. | 3699.018 | -.843 | .19E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 115. | 3698.052 | -.872 | .19E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 116. | 3697.053 | -.901 | .19E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 117. | 3696.022 | -.929 | .19E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 118. | 3694.960 | -.957 | .19E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 119. | 3693.868 | -.985 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 120. | 3692.745 | -1.012 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 121. | 3691.592 | -1.038 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 122. | 3690.410 | -1.065 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 123. | 3689.198 | -1.091 | .18E-05 | 0.00 | .11E-06 | -180.000 | .27E-05 | 90.000 |
| 124. | 3687.958 | -1.116 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 125. | 3686.689 | -1.142 | .18E-05 | 0.00 | .11E-06 | -180.000 | .27E-05 | 90.000 |
| 126. | 3685.392 | -1.168 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 127. | 3684.067 | -1.193 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 128. | 3682.713 | -1.219 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 129. | 3681.331 | -1.245 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 130. | 3679.922 | -1.270 | .18E-05 | 0.00 | .11E-06 | -180.000 | .27E-05 | 90.000 |
| 131. | 3678.484 | -1.295 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 132. | 3677.018 | -1.321 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 133. | 3675.524 | -1.346 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 134. | 3674.004 | -1.371 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 135. | 3672.456 | -1.395 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 136. | 3670.881 | -1.419 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 137. | 3669.281 | -1.442 | .18E-05 | 0.00 | .11E-06 | 180.000 | .27E-05 | 90.000 |
| 138. | 3667.657 | -1.465 | .18E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 139. | 3666.008 | -1.486 | .18E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 140. | 3664.338 | -1.505 | .18E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 141. | 3662.647 | -1.524 | .18E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 142. | 3660.938 | -1.540 | .18E-05 | 0.00 | .10E-06 | 180.000 | .27E-05 | 90.000 |
| 143. | 3659.213 | -1.554 | .18E-05 | 0.00 | .98E-07 | 180.000 | .27E-05 | 90.000 |
| 144. | 3657.473 | -1.566 | .18E-05 | 0.00 | .96E-07 | -180.000 | .27E-05 | 90.000 |
| 145. | 3655.722 | -1.576 | .18E-05 | 0.00 | .95E-07 | -180.000 | .27E-05 | 90.000 |
| 146. | 3653.963 | -1.583 | .18E-05 | 0.00 | .92E-07 | -180.000 | .27E-05 | 90.000 |
| 147. | 3652.198 | -1.587 | .18E-05 | 0.00 | .90E-07 | 180.000 | .27E-05 | 90.000 |
| 148. | 3650.432 | -1.588 | .18E-05 | 0.00 | .88E-07 | 180.000 | .27E-05 | 90.000 |
| 149. | 3648.667 | -1.586 | .18E-05 | 0.00 | .85E-07 | 180.000 | .27E-05 | 90.000 |

110-CUT YTTRIUM GALLIUM GARNET

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3646.906 | -1.581 | .18E-05 | 0.00 | .83E-07 | -180.000 | .27E-05 | 90.000 |
| 151. | 3645.154 | -1.572 | .18E-05 | 0.00 | .80E-07 | 180.000 | .27E-05 | 90.000 |
| 152. | 3643.415 | -1.560 | .18E-05 | 0.00 | .77E-07 | 180.000 | .27E-05 | 90.000 |
| 153. | 3641.692 | -1.544 | .18E-05 | 0.00 | .75E-07 | 180.000 | .27E-05 | 90.000 |
| 154. | 3639.989 | -1.525 | .18E-05 | 0.00 | .72E-07 | 180.000 | .27E-05 | 90.000 |
| 155. | 3638.310 | -1.502 | .18E-05 | 0.00 | .69E-07 | 180.000 | .27E-05 | 90.000 |
| 156. | 3636.659 | -1.476 | .18E-05 | 0.00 | .66E-07 | 180.000 | .27E-05 | 90.000 |
| 157. | 3635.040 | -1.446 | .18E-05 | 0.00 | .63E-07 | 180.000 | .27E-05 | 90.000 |
| 158. | 3633.457 | -1.413 | .18E-05 | 0.00 | .60E-07 | 180.000 | .27E-05 | 90.000 |
| 159. | 3631.914 | -1.375 | .18E-05 | 0.00 | .57E-07 | 180.000 | .27E-05 | 90.000 |
| 160. | 3630.415 | -1.335 | .18E-05 | 0.00 | .54E-07 | 180.000 | .27E-05 | 90.000 |
| 161. | 3628.962 | -1.291 | .18E-05 | 0.00 | .51E-07 | 180.000 | .27E-05 | 90.000 |
| 162. | 3627.561 | -1.244 | .18E-05 | 0.00 | .48E-07 | 180.000 | .27E-05 | 90.000 |
| 163. | 3626.213 | -1.194 | .18E-05 | 0.00 | .45E-07 | 180.000 | .27E-05 | 90.000 |
| 164. | 3624.924 | -1.141 | .18E-05 | 0.00 | .42E-07 | 180.000 | .27E-05 | 90.000 |
| 165. | 3623.695 | -1.084 | .18E-05 | 0.00 | .39E-07 | 180.000 | .27E-05 | 90.000 |
| 166. | 3622.531 | -1.025 | .18E-05 | 0.00 | .36E-07 | 180.000 | .27E-05 | 90.000 |
| 167. | 3621.433 | -.964 | .18E-05 | 0.00 | .33E-07 | 180.000 | .27E-05 | 90.000 |
| 168. | 3620.406 | -.899 | .18E-05 | 0.00 | .31E-07 | 180.000 | .27E-05 | 90.000 |
| 169. | 3619.450 | -.833 | .18E-05 | 0.00 | .28E-07 | 180.000 | .27E-05 | 90.000 |
| 170. | 3618.570 | -.764 | .18E-05 | 0.00 | .25E-07 | 180.000 | .27E-05 | 90.000 |
| 171. | 3617.766 | -.694 | .18E-05 | 0.00 | .23E-07 | 180.000 | .27E-05 | 90.000 |
| 172. | 3617.041 | -.621 | .18E-05 | 0.00 | .20E-07 | 180.000 | .27E-05 | 90.000 |
| 173. | 3616.398 | -.547 | .18E-05 | 0.00 | .17E-07 | 180.000 | .27E-05 | 90.000 |
| 174. | 3615.836 | -.472 | .18E-05 | 0.00 | .15E-07 | 180.000 | .27E-05 | 90.000 |
| 175. | 3615.359 | -.395 | .18E-05 | 0.00 | .12E-07 | 180.000 | .27E-05 | 90.000 |
| 176. | 3614.967 | -.317 | .18E-05 | 0.00 | .98E-08 | 180.000 | .27E-05 | 90.000 |
| 177. | 3614.661 | -.239 | .18E-05 | 0.00 | .74E-08 | 180.000 | .27E-05 | 90.000 |
| 178. | 3614.442 | -.159 | .18E-05 | 0.00 | .49E-08 | 180.000 | .27E-05 | 90.000 |
| 179. | 3614.310 | -.080 | .18E-05 | 0.00 | .24E-08 | 180.000 | .27E-05 | 90.000 |
| 180. | 3614.266 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 90.000 |

Z-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3583.661 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |
| 1. | 3583.653 | -.015 | .19E-05 | 0.00 | .11E-08 | 0.000 | .29E-05 | 90.000 |
| 2. | 3583.629 | -.030 | .19E-05 | 0.00 | .22E-08 | 0.000 | .29E-05 | 90.000 |
| 3. | 3583.588 | -.045 | .19E-05 | 0.00 | .33E-08 | 0.000 | .29E-05 | 90.000 |
| 4. | 3583.531 | -.059 | .19E-05 | 0.00 | .44E-08 | 0.000 | .29E-05 | 90.000 |
| 5. | 3583.459 | -.073 | .19E-05 | 0.00 | .54E-08 | 0.000 | .29E-05 | 90.000 |
| 6. | 3583.372 | -.087 | .19E-05 | 0.00 | .65E-08 | 0.000 | .29E-05 | 90.000 |
| 7. | 3583.270 | -.100 | .19E-05 | 0.00 | .75E-08 | 0.000 | .29E-05 | 90.000 |
| 8. | 3583.154 | -.113 | .19E-05 | 0.00 | .85E-08 | 0.000 | .29E-05 | 90.000 |
| 9. | 3583.024 | -.124 | .19E-05 | 0.00 | .95E-08 | 0.000 | .29E-05 | 90.000 |
| 10. | 3582.882 | -.136 | .19E-05 | 0.00 | .10E-07 | 0.000 | .29E-05 | 90.000 |
| 11. | 3582.729 | -.146 | .19E-05 | 0.00 | .11E-07 | 0.000 | .29E-05 | 90.000 |
| 12. | 3582.564 | -.156 | .19E-05 | 0.00 | .12E-07 | 0.000 | .29E-05 | 90.000 |
| 13. | 3582.389 | -.164 | .19E-05 | 0.00 | .13E-07 | 0.000 | .29E-05 | 90.000 |
| 14. | 3582.206 | -.172 | .19E-05 | 0.00 | .14E-07 | 0.000 | .29E-05 | 90.000 |
| 15. | 3582.014 | -.179 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 16. | 3581.815 | -.185 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 17. | 3581.611 | -.190 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 18. | 3581.401 | -.194 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 19. | 3581.188 | -.197 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 20. | 3580.972 | -.199 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 21. | 3580.754 | -.200 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 22. | 3580.536 | -.200 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 23. | 3580.318 | -.199 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 24. | 3580.102 | -.197 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 25. | 3579.888 | -.195 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 26. | 3579.678 | -.191 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 27. | 3579.472 | -.186 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 28. | 3579.271 | -.181 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 29. | 3579.078 | -.175 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 30. | 3578.891 | -.168 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 31. | 3578.712 | -.160 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 32. | 3578.542 | -.152 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 33. | 3578.382 | -.143 | .19E-05 | 0.00 | .14E-07 | 0.000 | .29E-05 | 90.000 |
| 34. | 3578.232 | -.133 | .19E-05 | 0.00 | .13E-07 | 0.000 | .29E-05 | 90.000 |
| 35. | 3578.092 | -.123 | .19E-05 | 0.00 | .12E-07 | 0.000 | .29E-05 | 90.000 |
| 36. | 3577.964 | -.112 | .19E-05 | 0.00 | .11E-07 | 0.000 | .29E-05 | 90.000 |
| 37. | 3577.848 | -.101 | .19E-05 | 0.00 | .10E-07 | 0.000 | .29E-05 | 90.000 |
| 38. | 3577.745 | -.089 | .19E-05 | 0.00 | .90E-08 | 0.000 | .29E-05 | 90.000 |
| 39. | 3577.655 | -.077 | .19E-05 | 0.00 | .78E-08 | 0.000 | .29E-05 | 90.000 |
| 40. | 3577.577 | -.065 | .19E-05 | 0.00 | .65E-08 | 0.000 | .29E-05 | 90.000 |
| 41. | 3577.514 | -.052 | .19E-05 | 0.00 | .53E-08 | 0.000 | .29E-05 | 90.000 |
| 42. | 3577.464 | -.039 | .19E-05 | 0.00 | .40E-08 | 0.000 | .29E-05 | 90.000 |
| 43. | 3577.428 | -.026 | .19E-05 | 0.00 | .27E-08 | 0.000 | .29E-05 | 90.000 |
| 44. | 3577.407 | -.013 | .19E-05 | 0.00 | .13E-08 | 0.000 | .29E-05 | 90.000 |
| 45. | 3577.400 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |
| 46. | 3577.407 | .013 | .19E-05 | 0.00 | .13E-08 | 180.000 | .29E-05 | 90.000 |
| 47. | 3577.428 | .026 | .19E-05 | 0.00 | .27E-08 | 180.000 | .29E-05 | 90.000 |
| 48. | 3577.464 | .039 | .19E-05 | 0.00 | .40E-08 | 180.000 | .29E-05 | 90.000 |
| 49. | 3577.514 | .052 | .19E-05 | 0.00 | .53E-08 | 180.000 | .29E-05 | 90.000 |

Z-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3577.577 | .065 | .19E-05 | 0.00 | .65E-08 | 180.000 | .29E-05 | 90.000 |
| 51. | 3577.655 | .077 | .19E-05 | 0.00 | .78E-08 | 180.000 | .29E-05 | 90.000 |
| 52. | 3577.745 | .089 | .19E-05 | 0.00 | .90E-08 | 180.000 | .29E-05 | 90.000 |
| 53. | 3577.848 | .101 | .19E-05 | 0.00 | .10E-07 | 180.000 | .29E-05 | 90.000 |
| 54. | 3577.964 | .112 | .19E-05 | 0.00 | .11E-07 | 180.000 | .29E-05 | 90.000 |
| 55. | 3578.092 | .123 | .19E-05 | 0.00 | .12E-07 | 180.000 | .29E-05 | 90.000 |
| 56. | 3578.232 | .133 | .19E-05 | 0.00 | .13E-07 | 180.000 | .29E-05 | 90.000 |
| 57. | 3578.382 | .143 | .19E-05 | 0.00 | .14E-07 | 180.000 | .29E-05 | 90.000 |
| 58. | 3578.542 | .152 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 59. | 3578.712 | .160 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 60. | 3578.891 | .168 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 61. | 3579.078 | .175 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 62. | 3579.271 | .181 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 63. | 3579.472 | .186 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 64. | 3579.678 | .191 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 65. | 3579.888 | .195 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 66. | 3580.102 | .197 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 67. | 3580.318 | .199 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 68. | 3580.536 | .200 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 69. | 3580.754 | .200 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 70. | 3580.972 | .199 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 71. | 3581.188 | .197 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 72. | 3581.401 | .194 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 73. | 3581.611 | .190 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 74. | 3581.815 | .185 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 75. | 3582.014 | .179 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 76. | 3582.206 | .172 | .19E-05 | 0.00 | .14E-07 | 180.000 | .29E-05 | 90.000 |
| 77. | 3582.389 | .164 | .19E-05 | 0.00 | .13E-07 | 180.000 | .29E-05 | 90.000 |
| 78. | 3582.564 | .156 | .19E-05 | 0.00 | .12E-07 | 180.000 | .29E-05 | 90.000 |
| 79. | 3582.729 | .146 | .19E-05 | 0.00 | .11E-07 | 180.000 | .29E-05 | 90.000 |
| 80. | 3582.882 | .136 | .19E-05 | 0.00 | .10E-07 | 180.000 | .29E-05 | 90.000 |
| 81. | 3583.024 | .124 | .19E-05 | 0.00 | .95E-08 | 180.000 | .29E-05 | 90.000 |
| 82. | 3583.154 | .113 | .19E-05 | 0.00 | .85E-08 | 180.000 | .29E-05 | 90.000 |
| 83. | 3583.270 | .100 | .19E-05 | 0.00 | .75E-08 | 180.000 | .29E-05 | 90.000 |
| 84. | 3583.372 | .087 | .19E-05 | 0.00 | .65E-08 | 180.000 | .29E-05 | 90.000 |
| 85. | 3583.459 | .073 | .19E-05 | 0.00 | .54E-08 | 180.000 | .29E-05 | 90.000 |
| 86. | 3583.531 | .059 | .19E-05 | 0.00 | .44E-08 | 180.000 | .29E-05 | 90.000 |
| 87. | 3583.588 | .045 | .19E-05 | 0.00 | .33E-08 | 180.000 | .29E-05 | 90.000 |
| 88. | 3583.629 | .030 | .19E-05 | 0.00 | .22E-08 | 180.000 | .29E-05 | 90.000 |
| 89. | 3583.653 | .015 | .19E-05 | 0.00 | .11E-08 | 180.000 | .29E-05 | 90.000 |
| 90. | 3583.661 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |
| 91. | 3583.653 | -.015 | .19E-05 | 0.00 | .11E-08 | 0.000 | .29E-05 | 90.000 |
| 92. | 3583.629 | -.030 | .19E-05 | 0.00 | .22E-08 | 0.000 | .29E-05 | 90.000 |
| 93. | 3583.588 | -.045 | .19E-05 | 0.00 | .33E-08 | 0.000 | .29E-05 | 90.000 |
| 94. | 3583.531 | -.059 | .19E-05 | 0.00 | .44E-08 | 0.000 | .29E-05 | 90.000 |
| 95. | 3583.459 | -.073 | .19E-05 | 0.00 | .54E-08 | 0.000 | .29E-05 | 90.000 |
| 96. | 3583.372 | -.087 | .19E-05 | 0.00 | .65E-08 | 0.000 | .29E-05 | 90.000 |
| 97. | 3583.270 | -.100 | .19E-05 | 0.00 | .75E-08 | 0.000 | .29E-05 | 90.000 |
| 98. | 3583.154 | -.113 | .19E-05 | 0.00 | .85E-08 | 0.000 | .29E-05 | 90.000 |
| 99. | 3583.024 | -.124 | .19E-05 | 0.00 | .95E-08 | 0.000 | .29E-05 | 90.000 |

Z-OUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3582.892 | -.136 | .19E-05 | 0.00 | .10E-07 | 0.000 | .29E-05 | 90.000 |
| 101. | 3582.729 | -.146 | .19E-05 | 0.00 | .11E-07 | 0.000 | .29E-05 | 90.000 |
| 102. | 3582.564 | -.156 | .19E-05 | 0.00 | .12E-07 | 0.000 | .29E-05 | 90.000 |
| 103. | 3582.389 | -.164 | .19E-05 | 0.00 | .13E-07 | 0.000 | .29E-05 | 90.000 |
| 104. | 3582.206 | -.172 | .19E-05 | 0.00 | .14E-07 | 0.000 | .29E-05 | 90.000 |
| 105. | 3582.014 | -.179 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 106. | 3581.815 | -.185 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 107. | 3581.611 | -.190 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 108. | 3581.401 | -.194 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 109. | 3581.188 | -.197 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 110. | 3580.972 | -.199 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 111. | 3580.754 | -.200 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 112. | 3580.536 | -.200 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 113. | 3580.318 | -.199 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 114. | 3580.102 | -.197 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 115. | 3579.888 | -.195 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 116. | 3579.678 | -.191 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 117. | 3579.472 | -.186 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 118. | 3579.271 | -.181 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 119. | 3579.078 | -.175 | .19E-05 | 0.00 | .17E-07 | 0.000 | .29E-05 | 90.000 |
| 120. | 3578.891 | -.168 | .19E-05 | 0.00 | .16E-07 | 0.000 | .29E-05 | 90.000 |
| 121. | 3578.712 | -.160 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 122. | 3578.542 | -.152 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 123. | 3578.382 | -.143 | .19E-05 | 0.00 | .14E-07 | 0.000 | .29E-05 | 90.000 |
| 124. | 3578.232 | -.133 | .19E-05 | 0.00 | .13E-07 | 0.000 | .29E-05 | 90.000 |
| 125. | 3578.092 | -.123 | .19E-05 | 0.00 | .12E-07 | 0.000 | .29E-05 | 90.000 |
| 126. | 3577.964 | -.112 | .19E-05 | 0.00 | .11E-07 | 0.000 | .29E-05 | 90.000 |
| 127. | 3577.848 | -.101 | .19E-05 | 0.00 | .10E-07 | 0.000 | .29E-05 | 90.000 |
| 128. | 3577.745 | -.089 | .19E-05 | 0.00 | .90E-08 | 0.000 | .29E-05 | 90.000 |
| 129. | 3577.655 | -.077 | .19E-05 | 0.00 | .78E-08 | 0.000 | .29E-05 | 90.000 |
| 130. | 3577.577 | -.065 | .19E-05 | 0.00 | .65E-08 | 0.000 | .29E-05 | 90.000 |
| 131. | 3577.514 | -.052 | .19E-05 | 0.00 | .53E-08 | 0.000 | .29E-05 | 90.000 |
| 132. | 3577.464 | -.039 | .19E-05 | 0.00 | .40E-08 | 0.000 | .29E-05 | 90.000 |
| 133. | 3577.428 | -.026 | .19E-05 | 0.00 | .27E-08 | 0.000 | .29E-05 | 90.000 |
| 134. | 3577.407 | -.013 | .19E-05 | 0.00 | .13E-08 | 0.000 | .29E-05 | 90.000 |
| 135. | 3577.400 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |
| 136. | 3577.407 | .013 | .19E-05 | 0.00 | .13E-08 | 180.000 | .29E-05 | 90.000 |
| 137. | 3577.428 | .026 | .19E-05 | 0.00 | .27E-08 | 180.000 | .29E-05 | 90.000 |
| 138. | 3577.464 | .039 | .19E-05 | 0.00 | .40E-08 | 180.000 | .29E-05 | 90.000 |
| 139. | 3577.514 | .052 | .19E-05 | 0.00 | .53E-08 | 180.000 | .29E-05 | 90.000 |
| 140. | 3577.577 | .065 | .19E-05 | 0.00 | .65E-08 | 180.000 | .29E-05 | 90.000 |
| 141. | 3577.655 | .077 | .19E-05 | 0.00 | .78E-08 | 180.000 | .29E-05 | 90.000 |
| 142. | 3577.745 | .089 | .19E-05 | 0.00 | .90E-08 | 180.000 | .29E-05 | 90.000 |
| 143. | 3577.848 | .101 | .19E-05 | 0.00 | .10E-07 | 180.000 | .29E-05 | 90.000 |
| 144. | 3577.964 | .112 | .19E-05 | 0.00 | .11E-07 | 180.000 | .29E-05 | 90.000 |
| 145. | 3578.092 | .123 | .19E-05 | 0.00 | .12E-07 | 180.000 | .29E-05 | 90.000 |
| 146. | 3578.232 | .133 | .19E-05 | 0.00 | .13E-07 | 180.000 | .29E-05 | 90.000 |
| 147. | 3578.382 | .143 | .19E-05 | 0.00 | .14E-07 | 180.000 | .29E-05 | 90.000 |
| 148. | 3578.542 | .152 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 149. | 3578.712 | .160 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |

Z-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3578.891 | .168 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 151. | 3579.078 | .175 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 152. | 3579.271 | .181 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 153. | 3579.472 | .186 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 154. | 3579.678 | .191 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 155. | 3579.888 | .195 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 156. | 3580.102 | .197 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 157. | 3580.318 | .199 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 158. | 3580.536 | .200 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 159. | 3580.754 | .200 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 160. | 3580.972 | .199 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 161. | 3581.188 | .197 | .19E-05 | 0.00 | .17E-07 | 180.000 | .29E-05 | 90.000 |
| 162. | 3581.401 | .194 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 163. | 3581.611 | .190 | .19E-05 | 0.00 | .16E-07 | 180.000 | .29E-05 | 90.000 |
| 164. | 3581.815 | .185 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 165. | 3582.014 | .179 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 166. | 3582.206 | .172 | .19E-05 | 0.00 | .14E-07 | 180.000 | .29E-05 | 90.000 |
| 167. | 3582.389 | .164 | .19E-05 | 0.00 | .13E-07 | 180.000 | .29E-05 | 90.000 |
| 168. | 3582.564 | .156 | .19E-05 | 0.00 | .12E-07 | 180.000 | .29E-05 | 90.000 |
| 169. | 3582.729 | .146 | .19E-05 | 0.00 | .11E-07 | 180.000 | .29E-05 | 90.000 |
| 170. | 3582.882 | .136 | .19E-05 | 0.00 | .10E-07 | 180.000 | .29E-05 | 90.000 |
| 171. | 3583.024 | .124 | .19E-05 | 0.00 | .95E-08 | 180.000 | .29E-05 | 90.000 |
| 172. | 3583.154 | .113 | .19E-05 | 0.00 | .85E-08 | 180.000 | .29E-05 | 90.000 |
| 173. | 3583.270 | .100 | .19E-05 | 0.00 | .75E-08 | 180.000 | .29E-05 | 90.000 |
| 174. | 3583.372 | .087 | .19E-05 | 0.00 | .65E-08 | 180.000 | .29E-05 | 90.000 |
| 175. | 3583.459 | .073 | .19E-05 | 0.00 | .54E-08 | 180.000 | .29E-05 | 90.000 |
| 176. | 3583.531 | .059 | .19E-05 | 0.00 | .44E-08 | 180.000 | .29E-05 | 90.000 |
| 177. | 3583.588 | .045 | .19E-05 | 0.00 | .33E-08 | 180.000 | .29E-05 | 90.000 |
| 178. | 3583.629 | .030 | .19E-05 | 0.00 | .22E-08 | 180.000 | .29E-05 | 90.000 |
| 179. | 3583.653 | .015 | .19E-05 | 0.00 | .11E-08 | 180.000 | .29E-05 | 90.000 |
| 180. | 3583.661 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |

111-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3604.697 | 0.000 | .20E-05 | 0.00 | .28E-06 | 90.000 | .29E-05 | 90.000 |
| 1. | 3604.697 | .018 | .20E-05 | 0.00 | .28E-06 | 89.867 | .29E-05 | 89.940 |
| 2. | 3604.727 | .036 | .20E-05 | 0.00 | .28E-06 | 89.735 | .29E-05 | 89.880 |
| 3. | 3604.776 | .054 | .20E-05 | 0.00 | .28E-06 | 89.603 | .29E-05 | 89.820 |
| 4. | 3604.845 | .071 | .20E-05 | 0.00 | .27E-06 | 89.473 | .29E-05 | 89.760 |
| 5. | 3604.931 | .087 | .20E-05 | 0.00 | .27E-06 | 89.343 | .29E-05 | 89.702 |
| 6. | 3605.036 | .103 | .20E-05 | 0.00 | .27E-06 | 89.216 | .29E-05 | 89.644 |
| 7. | 3605.156 | .117 | .20E-05 | 0.00 | .26E-06 | 89.091 | .29E-05 | 89.587 |
| 8. | 3605.292 | .130 | .20E-05 | 0.00 | .26E-06 | 88.968 | .29E-05 | 89.531 |
| 9. | 3605.441 | .142 | .20E-05 | 0.00 | .25E-06 | 88.848 | .29E-05 | 89.477 |
| 10. | 3605.602 | .152 | .20E-05 | 0.00 | .24E-06 | 88.731 | .29E-05 | 89.424 |
| 11. | 3605.774 | .160 | .20E-05 | 0.00 | .24E-06 | 88.618 | .29E-05 | 89.373 |
| 12. | 3605.954 | .167 | .20E-05 | 0.00 | .23E-06 | 88.508 | .29E-05 | 89.323 |
| 13. | 3606.140 | .172 | .20E-05 | 0.00 | .22E-06 | 88.403 | .29E-05 | 89.275 |
| 14. | 3606.331 | .175 | .20E-05 | 0.00 | .21E-06 | 88.302 | .30E-05 | 89.230 |
| 15. | 3606.524 | .176 | .20E-05 | 0.00 | .20E-06 | 88.205 | .30E-05 | 89.186 |
| 16. | 3606.717 | .175 | .20E-05 | 0.00 | .19E-06 | 88.113 | .30E-05 | 89.145 |
| 17. | 3606.909 | .173 | .20E-05 | 0.00 | .18E-06 | 88.027 | .30E-05 | 89.106 |
| 18. | 3607.096 | .168 | .20E-05 | 0.00 | .17E-06 | 87.946 | .30E-05 | 89.069 |
| 19. | 3607.277 | .162 | .20E-05 | 0.00 | .15E-06 | 87.870 | .30E-05 | 89.035 |
| 20. | 3607.451 | .153 | .20E-05 | 0.00 | .14E-06 | 87.801 | .30E-05 | 89.004 |
| 21. | 3607.614 | .144 | .20E-05 | 0.00 | .13E-06 | 87.737 | .30E-05 | 88.975 |
| 22. | 3607.766 | .132 | .20E-05 | 0.00 | .12E-06 | 87.680 | .30E-05 | 88.949 |
| 23. | 3607.904 | .119 | .20E-05 | 0.00 | .10E-06 | 87.629 | .30E-05 | 88.926 |
| 24. | 3608.026 | .105 | .20E-05 | 0.00 | .88E-07 | 87.584 | .30E-05 | 88.906 |
| 25. | 3608.133 | .089 | .20E-05 | 0.00 | .73E-07 | 87.547 | .30E-05 | 88.889 |
| 26. | 3608.222 | .072 | .20E-05 | 0.00 | .59E-07 | 87.515 | .30E-05 | 88.875 |
| 27. | 3608.292 | .055 | .20E-05 | 0.00 | .44E-07 | 87.491 | .30E-05 | 88.864 |
| 28. | 3608.342 | .037 | .20E-05 | 0.00 | .30E-07 | 87.474 | .30E-05 | 88.857 |
| 29. | 3608.373 | .019 | .20E-05 | 0.00 | .15E-07 | 87.463 | .30E-05 | 88.852 |
| 30. | 3608.383 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.850 |
| 31. | 3608.373 | -.019 | .20E-05 | 0.00 | .15E-07 | -92.537 | .30E-05 | 88.852 |
| 32. | 3608.342 | -.037 | .20E-05 | 0.00 | .30E-07 | -92.526 | .30E-05 | 88.857 |
| 33. | 3608.292 | -.055 | .20E-05 | 0.00 | .44E-07 | -92.509 | .30E-05 | 88.864 |
| 34. | 3608.222 | -.072 | .20E-05 | 0.00 | .59E-07 | -92.485 | .30E-05 | 88.875 |
| 35. | 3608.133 | -.089 | .20E-05 | 0.00 | .73E-07 | -92.453 | .30E-05 | 88.889 |
| 36. | 3608.026 | -.105 | .20E-05 | 0.00 | .88E-07 | -92.416 | .30E-05 | 88.906 |
| 37. | 3607.904 | -.119 | .20E-05 | 0.00 | .10E-06 | -92.371 | .30E-05 | 88.926 |
| 38. | 3607.766 | -.132 | .20E-05 | 0.00 | .12E-06 | -92.320 | .30E-05 | 88.949 |
| 39. | 3607.614 | -.144 | .20E-05 | 0.00 | .13E-06 | -92.263 | .30E-05 | 88.975 |
| 40. | 3607.451 | -.153 | .20E-05 | 0.00 | .14E-06 | -92.199 | .30E-05 | 89.004 |
| 41. | 3607.277 | -.162 | .20E-05 | 0.00 | .15E-06 | -92.130 | .30E-05 | 89.035 |
| 42. | 3607.096 | -.168 | .20E-05 | 0.00 | .17E-06 | -92.054 | .30E-05 | 89.069 |
| 43. | 3606.909 | -.173 | .20E-05 | 0.00 | .18E-06 | -91.973 | .30E-05 | 89.106 |
| 44. | 3606.717 | -.175 | .20E-05 | 0.00 | .19E-06 | -91.887 | .30E-05 | 89.145 |
| 45. | 3606.524 | -.176 | .20E-05 | 0.00 | .20E-06 | -91.795 | .30E-05 | 89.186 |
| 46. | 3606.331 | -.175 | .20E-05 | 0.00 | .21E-06 | -91.698 | .30E-05 | 89.230 |
| 47. | 3606.140 | -.172 | .20E-05 | 0.00 | .22E-06 | -91.597 | .29E-05 | 89.275 |
| 48. | 3605.954 | -.167 | .20E-05 | 0.00 | .23E-06 | -91.492 | .29E-05 | 89.323 |
| 49. | 3605.774 | -.160 | .20E-05 | 0.00 | .24E-06 | -91.382 | .29E-05 | 89.373 |

111-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3605.602 | -.152 | .20E-05 | 0.00 | .24E-06 | -91.269 | .29E-05 | 89.424 |
| 51. | 3605.441 | -.142 | .20E-05 | 0.00 | .25E-06 | -91.152 | .29E-05 | 89.477 |
| 52. | 3605.292 | -.130 | .20E-05 | 0.00 | .26E-06 | -91.032 | .29E-05 | 89.531 |
| 53. | 3605.156 | -.117 | .20E-05 | 0.00 | .26E-06 | -90.909 | .29E-05 | 89.587 |
| 54. | 3605.036 | -.103 | .20E-05 | 0.00 | .27E-06 | -90.784 | .29E-05 | 89.644 |
| 55. | 3604.931 | -.087 | .20E-05 | 0.00 | .27E-06 | -90.657 | .29E-05 | 89.702 |
| 56. | 3604.845 | -.071 | .20E-05 | 0.00 | .27E-06 | -90.527 | .29E-05 | 89.760 |
| 57. | 3604.776 | -.054 | .20E-05 | 0.00 | .28E-06 | -90.397 | .29E-05 | 89.820 |
| 58. | 3604.727 | -.036 | .20E-05 | 0.00 | .28E-06 | -90.265 | .29E-05 | 89.880 |
| 59. | 3604.697 | -.018 | .20E-05 | 0.00 | .28E-06 | -90.133 | .29E-05 | 89.940 |
| 60. | 3604.687 | 0.000 | .20E-05 | 0.00 | .28E-06 | -90.000 | .29E-05 | 90.000 |
| 61. | 3604.697 | .018 | .20E-05 | 0.00 | .28E-06 | -89.867 | .29E-05 | 90.060 |
| 62. | 3604.727 | .036 | .20E-05 | 0.00 | .28E-06 | -89.735 | .29E-05 | 90.120 |
| 63. | 3604.776 | .054 | .20E-05 | 0.00 | .28E-06 | -89.603 | .29E-05 | 90.180 |
| 64. | 3604.845 | .071 | .20E-05 | 0.00 | .27E-06 | -89.473 | .29E-05 | 90.240 |
| 65. | 3604.932 | .087 | .20E-05 | 0.00 | .27E-06 | -89.343 | .29E-05 | 90.298 |
| 66. | 9999.999 | .999 | .20E-05 | 0.00 | .99E-06 | -89.375 | .99E-05 | 90.301 |
| 67. | 3605.157 | .117 | .20E-05 | 0.00 | .26E-06 | -89.091 | .29E-05 | 90.413 |
| 68. | 3605.292 | .130 | .20E-05 | 0.00 | .26E-06 | -88.968 | .29E-05 | 90.469 |
| 69. | 9999.999 | .999 | .20E-05 | 0.00 | .99E-06 | -99.999 | .99E-05 | 99.999 |
| 70. | 3605.603 | .152 | .20E-05 | 0.00 | .24E-06 | -88.731 | .29E-05 | 90.576 |
| 71. | 3605.774 | .160 | .20E-05 | 0.00 | .24E-06 | -88.618 | .29E-05 | 90.627 |
| 72. | 3605.954 | .167 | .20E-05 | 0.00 | .23E-06 | -88.508 | .29E-05 | 90.677 |
| 73. | 3606.140 | .172 | .20E-05 | 0.00 | .22E-06 | -88.403 | .29E-05 | 90.725 |
| 74. | 3606.331 | .175 | .20E-05 | 0.00 | .21E-06 | -88.302 | .30E-05 | 90.770 |
| 75. | 3606.524 | .176 | .20E-05 | 0.00 | .20E-06 | -88.205 | .30E-05 | 90.814 |
| 76. | 3606.717 | .175 | .20E-05 | 0.00 | .19E-06 | -88.113 | .30E-05 | 90.855 |
| 77. | 3606.909 | .173 | .20E-05 | 0.00 | .18E-06 | -88.027 | .30E-05 | 90.894 |
| 78. | 3607.096 | .168 | .20E-05 | 0.00 | .17E-06 | -87.946 | .30E-05 | 90.931 |
| 79. | 3607.277 | .162 | .20E-05 | 0.00 | .15E-06 | -87.870 | .30E-05 | 90.965 |
| 80. | 3607.451 | .153 | .20E-05 | 0.00 | .14E-06 | -87.801 | .30E-05 | 90.996 |
| 81. | 3607.614 | .144 | .20E-05 | 0.00 | .13E-06 | -87.737 | .30E-05 | 91.025 |
| 82. | 3607.766 | .132 | .20E-05 | 0.00 | .12E-06 | -87.680 | .30E-05 | 91.051 |
| 83. | 3607.904 | .119 | .20E-05 | 0.00 | .10E-06 | -87.629 | .30E-05 | 91.074 |
| 84. | 3608.026 | .105 | .20E-05 | 0.00 | .88E-07 | -87.584 | .30E-05 | 91.094 |
| 85. | 3608.133 | .089 | .20E-05 | 0.00 | .73E-07 | -87.547 | .30E-05 | 91.111 |
| 86. | 3608.222 | .072 | .20E-05 | 0.00 | .59E-07 | -87.515 | .30E-05 | 91.125 |
| 87. | 3608.292 | .055 | .20E-05 | 0.00 | .44E-07 | -87.491 | .30E-05 | 91.136 |
| 88. | 3608.342 | .037 | .20E-05 | 0.00 | .30E-07 | -87.474 | .30E-05 | 91.143 |
| 89. | 3608.373 | .019 | .20E-05 | 0.00 | .15E-07 | -87.463 | .30E-05 | 91.148 |
| 90. | 3608.383 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 91.150 |
| 91. | 3608.373 | -.019 | .20E-05 | 0.00 | .15E-07 | 92.537 | .30E-05 | 91.148 |
| 92. | 3608.342 | -.037 | .20E-05 | 0.00 | .30E-07 | 92.526 | .30E-05 | 91.143 |
| 93. | 3608.292 | -.055 | .20E-05 | 0.00 | .44E-07 | 92.509 | .30E-05 | 91.136 |
| 94. | 3608.222 | -.072 | .20E-05 | 0.00 | .59E-07 | 92.485 | .30E-05 | 91.125 |
| 95. | 3608.133 | -.089 | .20E-05 | 0.00 | .73E-07 | 92.453 | .30E-05 | 91.111 |
| 96. | 3608.026 | -.105 | .20E-05 | 0.00 | .88E-07 | 92.416 | .30E-05 | 91.094 |
| 97. | 3607.904 | -.119 | .20E-05 | 0.00 | .10E-06 | 92.371 | .30E-05 | 91.074 |
| 98. | 3607.766 | -.132 | .20E-05 | 0.00 | .12E-06 | 92.320 | .30E-05 | 91.051 |
| 99. | 3607.614 | -.144 | .20E-05 | 0.00 | .13E-06 | 92.263 | .30E-05 | 91.025 |

111-OUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3607.451 | -.153 | .20E-05 | 0.00 | .14E-06 | 92.199 | .30E-05 | 90.996 |
| 101. | 3607.277 | -.162 | .20E-05 | 0.00 | .15E-06 | 92.130 | .30E-05 | 90.965 |
| 102. | 3607.096 | -.168 | .20E-05 | 0.00 | .17E-06 | 92.054 | .30E-05 | 90.931 |
| 103. | 3606.909 | -.173 | .20E-05 | 0.00 | .18E-06 | 91.973 | .30E-05 | 90.894 |
| 104. | 3606.717 | -.175 | .20E-05 | 0.00 | .19E-06 | 91.887 | .30E-05 | 90.855 |
| 105. | 3606.524 | -.176 | .20E-05 | 0.00 | .20E-06 | 91.795 | .30E-05 | 90.814 |
| 106. | 3606.331 | -.175 | .20E-05 | 0.00 | .21E-06 | 91.698 | .30E-05 | 90.770 |
| 107. | 3606.140 | -.172 | .20E-05 | 0.00 | .22E-06 | 91.597 | .29E-05 | 90.725 |
| 108. | 3605.954 | -.167 | .20E-05 | 0.00 | .23E-06 | 91.492 | .29E-05 | 90.677 |
| 109. | 3605.774 | -.160 | .20E-05 | 0.00 | .24E-06 | 91.382 | .29E-05 | 90.627 |
| 110. | 3605.603 | -.152 | .20E-05 | 0.00 | .24E-06 | 91.269 | .29E-05 | 90.576 |
| 111. | 3605.441 | -.142 | .20E-05 | 0.00 | .25E-06 | 91.152 | .29E-05 | 90.523 |
| 112. | 3605.292 | -.130 | .20E-05 | 0.00 | .26E-06 | 91.032 | .29E-05 | 90.469 |
| 113. | 3605.156 | -.117 | .20E-05 | 0.00 | .26E-06 | 90.909 | .29E-05 | 90.413 |
| 114. | 3605.036 | -.103 | .20E-05 | 0.00 | .27E-06 | 90.784 | .29E-05 | 90.356 |
| 115. | 3604.932 | -.087 | .20E-05 | 0.00 | .27E-06 | 90.657 | .29E-05 | 90.298 |
| 116. | 3604.845 | -.071 | .20E-05 | 0.00 | .27E-06 | 90.527 | .29E-05 | 90.240 |
| 117. | 3604.776 | -.054 | .20E-05 | 0.00 | .28E-06 | 90.397 | .29E-05 | 90.180 |
| 118. | 3604.727 | -.036 | .20E-05 | 0.00 | .28E-06 | 90.265 | .29E-05 | 90.120 |
| 119. | 3604.697 | -.018 | .20E-05 | 0.00 | .28E-06 | 90.133 | .29E-05 | 90.060 |
| 120. | 3604.687 | 0.000 | .20E-05 | 0.00 | .28E-06 | 90.000 | .29E-05 | 90.000 |
| 121. | 3604.697 | .018 | .20E-05 | 0.00 | .28E-06 | 89.867 | .29E-05 | 89.940 |
| 122. | 3604.727 | .036 | .20E-05 | 0.00 | .28E-06 | 89.735 | .29E-05 | 89.880 |
| 123. | 3604.776 | .054 | .20E-05 | 0.00 | .28E-06 | 89.603 | .29E-05 | 89.820 |
| 124. | 3604.845 | .071 | .20E-05 | 0.00 | .27E-06 | 89.473 | .29E-05 | 89.760 |
| 125. | 3604.931 | .087 | .20E-05 | 0.00 | .27E-06 | 89.343 | .29E-05 | 89.702 |
| 126. | 9999.999 | .999 | .20E-05 | 0.00 | .99E-06 | 99.999 | .99E-05 | 89.699 |
| 127. | 3605.156 | .117 | .20E-05 | 0.00 | .26E-06 | 89.091 | .29E-05 | 89.587 |
| 128. | 3605.292 | .130 | .20E-05 | 0.00 | .26E-06 | 88.968 | .29E-05 | 89.531 |
| 129. | 3605.441 | .142 | .20E-05 | 0.00 | .25E-06 | 88.848 | .29E-05 | 89.477 |
| 130. | 3605.602 | .152 | .20E-05 | 0.00 | .24E-06 | 88.731 | .29E-05 | 89.424 |
| 131. | 3605.774 | .160 | .20E-05 | 0.00 | .24E-06 | 88.618 | .29E-05 | 89.373 |
| 132. | 3605.954 | .167 | .20E-05 | 0.00 | .23E-06 | 88.508 | .29E-05 | 89.323 |
| 133. | 3606.140 | .172 | .20E-05 | 0.00 | .22E-06 | 88.403 | .29E-05 | 89.275 |
| 134. | 3606.331 | .175 | .20E-05 | 0.00 | .21E-06 | 88.302 | .30E-05 | 89.230 |
| 135. | 3606.524 | .176 | .20E-05 | 0.00 | .20E-06 | 88.205 | .30E-05 | 89.186 |
| 136. | 3606.717 | .175 | .20E-05 | 0.00 | .19E-06 | 88.113 | .30E-05 | 89.145 |
| 137. | 3606.909 | .173 | .20E-05 | 0.00 | .18E-06 | 88.027 | .30E-05 | 89.106 |
| 138. | 3607.096 | .168 | .20E-05 | 0.00 | .17E-06 | 87.946 | .30E-05 | 89.069 |
| 139. | 3607.277 | .162 | .20E-05 | 0.00 | .15E-06 | 87.870 | .30E-05 | 89.035 |
| 140. | 3607.451 | .153 | .20E-05 | 0.00 | .14E-06 | 87.801 | .30E-05 | 89.004 |
| 141. | 3607.614 | .144 | .20E-05 | 0.00 | .13E-06 | 87.737 | .30E-05 | 88.975 |
| 142. | 3607.766 | .132 | .20E-05 | 0.00 | .12E-06 | 87.680 | .30E-05 | 88.949 |
| 143. | 3607.904 | .119 | .20E-05 | 0.00 | .10E-06 | 87.629 | .30E-05 | 88.926 |
| 144. | 3608.026 | .105 | .20E-05 | 0.00 | .88E-07 | 87.584 | .30E-05 | 88.906 |
| 145. | 3608.133 | .089 | .20E-05 | 0.00 | .73E-07 | 87.547 | .30E-05 | 88.889 |
| 146. | 3608.222 | .072 | .20E-05 | 0.00 | .59E-07 | 87.515 | .30E-05 | 88.875 |
| 147. | 3608.292 | .055 | .20E-05 | 0.00 | .44E-07 | 87.491 | .30E-05 | 88.864 |
| 148. | 3608.342 | .037 | .20E-05 | 0.00 | .30E-07 | 87.474 | .30E-05 | 88.857 |
| 149. | 3608.373 | .019 | .20E-05 | 0.00 | .15E-07 | 87.463 | .30E-05 | 88.852 |

111-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3608.383 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 88.850 |
| 151. | 3608.373 | -.019 | .20E-05 | 0.00 | .15E-07 | -92.537 | .30E-05 | 88.852 |
| 152. | 3608.342 | -.037 | .20E-05 | 0.00 | .30E-07 | -92.526 | .30E-05 | 88.857 |
| 153. | 3608.292 | -.055 | .20E-05 | 0.00 | .44E-07 | -92.509 | .30E-05 | 88.864 |
| 154. | 3608.222 | -.072 | .20E-05 | 0.00 | .59E-07 | -92.485 | .30E-05 | 88.875 |
| 155. | 3608.133 | -.089 | .20E-05 | 0.00 | .73E-07 | -92.453 | .30E-05 | 88.889 |
| 156. | 3608.026 | -.105 | .20E-05 | 0.00 | .88E-07 | -92.416 | .30E-05 | 88.906 |
| 157. | 3607.904 | -.119 | .20E-05 | 0.00 | .10E-06 | -92.371 | .30E-05 | 88.926 |
| 158. | 3607.766 | -.132 | .20E-05 | 0.00 | .12E-06 | -92.320 | .30E-05 | 88.949 |
| 159. | 3607.614 | -.144 | .20E-05 | 0.00 | .13E-06 | -92.263 | .30E-05 | 88.975 |
| 160. | 3607.451 | -.153 | .20E-05 | 0.00 | .14E-06 | -92.199 | .30E-05 | 89.004 |
| 161. | 3607.277 | -.162 | .20E-05 | 0.00 | .15E-06 | -92.130 | .30E-05 | 89.035 |
| 162. | 3607.096 | -.168 | .20E-05 | 0.00 | .17E-06 | -92.054 | .30E-05 | 89.069 |
| 163. | 3606.909 | -.173 | .20E-05 | 0.00 | .18E-06 | -91.973 | .30E-05 | 89.106 |
| 164. | 3606.717 | -.175 | .20E-05 | 0.00 | .19E-06 | -91.887 | .30E-05 | 89.145 |
| 165. | 3606.524 | -.176 | .20E-05 | 0.00 | .20E-06 | -91.795 | .30E-05 | 89.186 |
| 166. | 3606.331 | -.175 | .20E-05 | 0.00 | .21E-06 | -91.698 | .30E-05 | 89.230 |
| 167. | 3606.140 | -.172 | .20E-05 | 0.00 | .22E-06 | -91.597 | .29E-05 | 89.275 |
| 168. | 3605.954 | -.167 | .20E-05 | 0.00 | .23E-06 | -91.492 | .29E-05 | 89.323 |
| 169. | 3605.774 | -.160 | .20E-05 | 0.00 | .24E-06 | -91.382 | .29E-05 | 89.373 |
| 170. | 3605.602 | -.152 | .20E-05 | 0.00 | .24E-06 | -91.269 | .29E-05 | 89.424 |
| 171. | 3605.441 | -.142 | .20E-05 | 0.00 | .25E-06 | -91.152 | .29E-05 | 89.477 |
| 172. | 3605.292 | -.130 | .20E-05 | 0.00 | .26E-06 | -91.032 | .29E-05 | 89.531 |
| 173. | 3605.156 | -.117 | .20E-05 | 0.00 | .26E-06 | -90.909 | .29E-05 | 89.587 |
| 174. | 3605.036 | -.103 | .20E-05 | 0.00 | .27E-06 | -90.784 | .29E-05 | 89.644 |
| 175. | 3604.931 | -.087 | .20E-05 | 0.00 | .27E-06 | -90.657 | .29E-05 | 89.702 |
| 176. | 3604.845 | -.071 | .20E-05 | 0.00 | .27E-06 | -90.527 | .29E-05 | 89.760 |
| 177. | 3604.776 | -.054 | .20E-05 | 0.00 | .28E-06 | -90.397 | .29E-05 | 89.820 |
| 178. | 3604.727 | -.036 | .20E-05 | 0.00 | .28E-06 | -90.265 | .29E-05 | 89.880 |
| 179. | 3604.697 | -.018 | .20E-05 | 0.00 | .28E-06 | -90.133 | .29E-05 | 89.940 |
| 180. | 3604.687 | 0.000 | .20E-05 | 0.00 | .28E-06 | -90.000 | .29E-05 | 90.000 |

110-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 0. | 3628.757 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |
| 1. | 3628.736 | -.038 | .20E-05 | 0.00 | .14E-08 | 180.000 | .30E-05 | 90.000 |
| 2. | 3628.674 | -.076 | .20E-05 | 0.00 | .28E-08 | 180.000 | .30E-05 | 90.000 |
| 3. | 3628.569 | -.113 | .20E-05 | 0.00 | .42E-08 | 180.000 | .30E-05 | 90.000 |
| 4. | 3628.423 | -.151 | .20E-05 | 0.00 | .55E-08 | 180.000 | .30E-05 | 90.000 |
| 5. | 3628.236 | -.188 | .20E-05 | 0.00 | .69E-08 | 180.000 | .30E-05 | 90.000 |
| 6. | 3628.008 | -.225 | .20E-05 | 0.00 | .83E-08 | 180.000 | .30E-05 | 90.000 |
| 7. | 3627.739 | -.261 | .20E-05 | 0.00 | .97E-08 | 180.000 | .30E-05 | 90.000 |
| 8. | 3627.431 | -.297 | .20E-05 | 0.00 | .11E-07 | 180.000 | .30E-05 | 90.000 |
| 9. | 3627.084 | -.332 | .20E-05 | 0.00 | .13E-07 | 180.000 | .30E-05 | 90.000 |
| 10. | 3626.699 | -.366 | .20E-05 | 0.00 | .14E-07 | 180.000 | .30E-05 | 90.000 |
| 11. | 3626.276 | -.400 | .20E-05 | 0.00 | .15E-07 | 180.000 | .30E-05 | 90.000 |
| 12. | 3625.816 | -.432 | .20E-05 | 0.00 | .17E-07 | 180.000 | .30E-05 | 90.000 |
| 13. | 3625.321 | -.464 | .20E-05 | 0.00 | .18E-07 | 180.000 | .30E-05 | 90.000 |
| 14. | 3624.791 | -.495 | .20E-05 | 0.00 | .20E-07 | 180.000 | .30E-05 | 90.000 |
| 15. | 3624.227 | -.525 | .20E-05 | 0.00 | .21E-07 | 180.000 | .30E-05 | 90.000 |
| 16. | 3623.631 | -.554 | .20E-05 | 0.00 | .23E-07 | 180.000 | .30E-05 | 90.000 |
| 17. | 3623.004 | -.582 | .20E-05 | 0.00 | .24E-07 | 180.000 | .30E-05 | 90.000 |
| 18. | 3622.347 | -.609 | .20E-05 | 0.00 | .26E-07 | 180.000 | .30E-05 | 90.000 |
| 19. | 3621.661 | -.634 | .20E-05 | 0.00 | .27E-07 | 180.000 | .30E-05 | 90.000 |
| 20. | 3620.948 | -.658 | .20E-05 | 0.00 | .29E-07 | 180.000 | .30E-05 | 90.000 |
| 21. | 3620.210 | -.681 | .20E-05 | 0.00 | .30E-07 | 180.000 | .30E-05 | 90.000 |
| 22. | 3619.446 | -.703 | .20E-05 | 0.00 | .32E-07 | 180.000 | .30E-05 | 90.000 |
| 23. | 3618.660 | -.723 | .20E-05 | 0.00 | .34E-07 | 180.000 | .30E-05 | 90.000 |
| 24. | 3617.853 | -.742 | .20E-05 | 0.00 | .35E-07 | 180.000 | .30E-05 | 90.000 |
| 25. | 3617.025 | -.759 | .20E-05 | 0.00 | .37E-07 | 180.000 | .30E-05 | 90.000 |
| 26. | 3616.180 | -.776 | .20E-05 | 0.00 | .39E-07 | 180.000 | .30E-05 | 90.000 |
| 27. | 3615.317 | -.790 | .20E-05 | 0.00 | .40E-07 | 180.000 | .30E-05 | 90.000 |
| 28. | 3614.439 | -.803 | .20E-05 | 0.00 | .42E-07 | 180.000 | .30E-05 | 90.000 |
| 29. | 3613.548 | -.815 | .20E-05 | 0.00 | .44E-07 | 180.000 | .30E-05 | 90.000 |
| 30. | 3612.645 | -.826 | .20E-05 | 0.00 | .45E-07 | 180.000 | .30E-05 | 90.000 |
| 31. | 3611.732 | -.834 | .20E-05 | 0.00 | .47E-07 | 180.000 | .30E-05 | 90.000 |
| 32. | 3610.810 | -.842 | .20E-05 | 0.00 | .48E-07 | -180.000 | .30E-05 | 90.000 |
| 33. | 3609.881 | -.848 | .20E-05 | 0.00 | .50E-07 | 180.000 | .30E-05 | 90.000 |
| 34. | 3608.946 | -.852 | .20E-05 | 0.00 | .52E-07 | 180.000 | .30E-05 | 90.000 |
| 35. | 3608.007 | -.855 | .20E-05 | 0.00 | .53E-07 | 180.000 | .30E-05 | 90.000 |
| 36. | 3607.067 | -.857 | .20E-05 | 0.00 | .55E-07 | -180.000 | .30E-05 | 90.000 |
| 37. | 3606.125 | -.857 | .20E-05 | 0.00 | .56E-07 | 180.000 | .30E-05 | 90.000 |
| 38. | 3605.184 | -.856 | .20E-05 | 0.00 | .58E-07 | 180.000 | .30E-05 | 90.000 |
| 39. | 3604.246 | -.853 | .20E-05 | 0.00 | .59E-07 | 180.000 | .30E-05 | 90.000 |
| 40. | 3603.311 | -.849 | .20E-05 | 0.00 | .60E-07 | 180.000 | .30E-05 | 90.000 |
| 41. | 3602.381 | -.844 | .20E-05 | 0.00 | .62E-07 | 180.000 | .30E-05 | 90.000 |
| 42. | 3601.458 | -.838 | .20E-05 | 0.00 | .63E-07 | 180.000 | .30E-05 | 90.000 |
| 43. | 3600.543 | -.830 | .20E-05 | 0.00 | .64E-07 | -180.000 | .30E-05 | 90.000 |
| 44. | 3599.638 | -.821 | .20E-05 | 0.00 | .65E-07 | 180.000 | .30E-05 | 90.000 |
| 45. | 3598.743 | -.811 | .20E-05 | 0.00 | .66E-07 | 180.000 | .30E-05 | 90.000 |
| 46. | 3597.859 | -.800 | .20E-05 | 0.00 | .67E-07 | 180.000 | .30E-05 | 90.000 |
| 47. | 3596.989 | -.788 | .20E-05 | 0.00 | .68E-07 | 180.000 | .30E-05 | 90.000 |
| 48. | 3596.133 | -.775 | .20E-05 | 0.00 | .68E-07 | -180.000 | .30E-05 | 90.000 |
| 49. | 3595.292 | -.760 | .20E-05 | 0.00 | .69E-07 | 180.000 | .30E-05 | 90.000 |

110°-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 50. | 3594.468 | -.745 | .20E-05 | 0.00 | .69E-07 | -180.000 | .30E-05 | 90.000 |
| 51. | 3593.661 | -.729 | .20E-05 | 0.00 | .70E-07 | 180.000 | .30E-05 | 90.000 |
| 52. | 3592.872 | -.712 | .20E-05 | 0.00 | .70E-07 | -180.000 | .30E-05 | 90.000 |
| 53. | 3592.101 | -.695 | .20E-05 | 0.00 | .70E-07 | 180.000 | .30E-05 | 90.000 |
| 54. | 3591.351 | -.677 | .20E-05 | 0.00 | .70E-07 | -180.000 | .30E-05 | 90.000 |
| 55. | 3590.621 | -.658 | .20E-05 | 0.00 | .70E-07 | 180.000 | .30E-05 | 90.000 |
| 56. | 3589.912 | -.638 | .19E-05 | 0.00 | .70E-07 | 180.000 | .30E-05 | 90.000 |
| 57. | 3589.225 | -.618 | .19E-05 | 0.00 | .70E-07 | 180.000 | .30E-05 | 90.000 |
| 58. | 3588.561 | -.598 | .19E-05 | 0.00 | .69E-07 | 180.000 | .30E-05 | 90.000 |
| 59. | 3587.918 | -.577 | .19E-05 | 0.00 | .69E-07 | 180.000 | .29E-05 | 90.000 |
| 60. | 3587.299 | -.556 | .19E-05 | 0.00 | .68E-07 | 180.000 | .29E-05 | 90.000 |
| 61. | 3586.704 | -.535 | .19E-05 | 0.00 | .67E-07 | 180.000 | .29E-05 | 90.000 |
| 62. | 3586.131 | -.513 | .19E-05 | 0.00 | .66E-07 | -180.000 | .29E-05 | 90.000 |
| 63. | 3585.583 | -.491 | .19E-05 | 0.00 | .65E-07 | 180.000 | .29E-05 | 90.000 |
| 64. | 3585.058 | -.469 | .19E-05 | 0.00 | .64E-07 | 180.000 | .29E-05 | 90.000 |
| 65. | 3584.558 | -.448 | .19E-05 | 0.00 | .62E-07 | 180.000 | .29E-05 | 90.000 |
| 66. | 3584.081 | -.426 | .19E-05 | 0.00 | .61E-07 | 180.000 | .29E-05 | 90.000 |
| 67. | 3583.627 | -.404 | .19E-05 | 0.00 | .59E-07 | 180.000 | .29E-05 | 90.000 |
| 68. | 3583.198 | -.383 | .19E-05 | 0.00 | .58E-07 | -180.000 | .29E-05 | 90.000 |
| 69. | 3582.792 | -.361 | .19E-05 | 0.00 | .56E-07 | 180.000 | .29E-05 | 90.000 |
| 70. | 3582.409 | -.340 | .19E-05 | 0.00 | .54E-07 | 180.000 | .29E-05 | 90.000 |
| 71. | 3582.049 | -.320 | .19E-05 | 0.00 | .52E-07 | 180.000 | .29E-05 | 90.000 |
| 72. | 3581.711 | -.299 | .19E-05 | 0.00 | .50E-07 | 180.000 | .29E-05 | 90.000 |
| 73. | 3581.396 | -.279 | .19E-05 | 0.00 | .47E-07 | 180.000 | .29E-05 | 90.000 |
| 74. | 3581.102 | -.260 | .19E-05 | 0.00 | .45E-07 | 180.000 | .29E-05 | 90.000 |
| 75. | 3580.829 | -.240 | .19E-05 | 0.00 | .43E-07 | -180.000 | .29E-05 | 90.000 |
| 76. | 3580.577 | -.222 | .19E-05 | 0.00 | .40E-07 | -180.000 | .29E-05 | 90.000 |
| 77. | 3580.345 | -.203 | .19E-05 | 0.00 | .38E-07 | -180.000 | .29E-05 | 90.000 |
| 78. | 3580.133 | -.185 | .19E-05 | 0.00 | .35E-07 | -180.000 | .29E-05 | 90.000 |
| 79. | 3579.941 | -.168 | .19E-05 | 0.00 | .32E-07 | -180.000 | .29E-05 | 90.000 |
| 80. | 3579.767 | -.151 | .19E-05 | 0.00 | .29E-07 | 180.000 | .29E-05 | 90.000 |
| 81. | 3579.611 | -.135 | .19E-05 | 0.00 | .27E-07 | 180.000 | .29E-05 | 90.000 |
| 82. | 3579.473 | -.118 | .19E-05 | 0.00 | .24E-07 | 180.000 | .29E-05 | 90.000 |
| 83. | 3579.353 | -.103 | .19E-05 | 0.00 | .21E-07 | 180.000 | .29E-05 | 90.000 |
| 84. | 3579.249 | -.087 | .19E-05 | 0.00 | .18E-07 | 180.000 | .29E-05 | 90.000 |
| 85. | 3579.162 | -.072 | .19E-05 | 0.00 | .15E-07 | 180.000 | .29E-05 | 90.000 |
| 86. | 3579.092 | -.057 | .19E-05 | 0.00 | .12E-07 | 180.000 | .29E-05 | 90.000 |
| 87. | 3579.037 | -.043 | .19E-05 | 0.00 | .90E-08 | 180.000 | .29E-05 | 90.000 |
| 88. | 3578.998 | -.029 | .19E-05 | 0.00 | .60E-08 | 180.000 | .29E-05 | 90.000 |
| 89. | 3578.975 | -.014 | .19E-05 | 0.00 | .30E-08 | 180.000 | .29E-05 | 90.000 |
| 90. | 3578.967 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 90.000 |
| 91. | 3578.975 | .014 | .19E-05 | 0.00 | .30E-08 | 0.000 | .29E-05 | 90.000 |
| 92. | 3578.998 | .029 | .19E-05 | 0.00 | .60E-08 | 0.000 | .29E-05 | 90.000 |
| 93. | 3579.037 | .043 | .19E-05 | 0.00 | .90E-08 | 0.000 | .29E-05 | 90.000 |
| 94. | 3579.092 | .057 | .19E-05 | 0.00 | .12E-07 | 0.000 | .29E-05 | 90.000 |
| 95. | 3579.162 | .072 | .19E-05 | 0.00 | .15E-07 | 0.000 | .29E-05 | 90.000 |
| 96. | 3579.249 | .087 | .19E-05 | 0.00 | .18E-07 | 0.000 | .29E-05 | 90.000 |
| 97. | 3579.353 | .103 | .19E-05 | 0.00 | .21E-07 | 0.000 | .29E-05 | 90.000 |
| 98. | 3579.473 | .118 | .19E-05 | 0.00 | .24E-07 | 0.000 | .29E-05 | 90.000 |
| 99. | 3579.611 | .135 | .19E-05 | 0.00 | .27E-07 | 0.000 | .29E-05 | 90.000 |

110°-CUT YIG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 100. | 3579.767 | .151 | .19E-05 | 0.00 | .29E-07 | 0.000 | .29E-05 | 90.000 |
| 101. | 3579.941 | .168 | .19E-05 | 0.00 | .32E-07 | 0.000 | .29E-05 | 90.000 |
| 102. | 3580.133 | .185 | .19E-05 | 0.00 | .35E-07 | 0.000 | .29E-05 | 90.000 |
| 103. | 3580.345 | .203 | .19E-05 | 0.00 | .38E-07 | 0.000 | .29E-05 | 90.000 |
| 104. | 3580.577 | .222 | .19E-05 | 0.00 | .40E-07 | 0.000 | .29E-05 | 90.000 |
| 105. | 3580.829 | .240 | .19E-05 | 0.00 | .43E-07 | 0.000 | .29E-05 | 90.000 |
| 106. | 3581.102 | .260 | .19E-05 | 0.00 | .45E-07 | 0.000 | .29E-05 | 90.000 |
| 107. | 3581.396 | .279 | .19E-05 | 0.00 | .47E-07 | 0.000 | .29E-05 | 90.000 |
| 108. | 3581.711 | .299 | .19E-05 | 0.00 | .50E-07 | 0.000 | .29E-05 | 90.000 |
| 109. | 3582.049 | .320 | .19E-05 | 0.00 | .52E-07 | 0.000 | .29E-05 | 90.000 |
| 110. | 3582.409 | .340 | .19E-05 | 0.00 | .54E-07 | 0.000 | .29E-05 | 90.000 |
| 111. | 3582.792 | .361 | .19E-05 | 0.00 | .56E-07 | 0.000 | .29E-05 | 90.000 |
| 112. | 3583.198 | .383 | .19E-05 | 0.00 | .58E-07 | 0.000 | .29E-05 | 90.000 |
| 113. | 3583.627 | .404 | .19E-05 | 0.00 | .59E-07 | 0.000 | .29E-05 | 90.000 |
| 114. | 3584.081 | .426 | .19E-05 | 0.00 | .61E-07 | 0.000 | .29E-05 | 90.000 |
| 115. | 3584.558 | .448 | .19E-05 | 0.00 | .62E-07 | 0.000 | .29E-05 | 90.000 |
| 116. | 3585.058 | .469 | .19E-05 | 0.00 | .64E-07 | 0.000 | .29E-05 | 90.000 |
| 117. | 3585.583 | .491 | .19E-05 | 0.00 | .65E-07 | 0.000 | .29E-05 | 90.000 |
| 118. | 3586.131 | .513 | .19E-05 | 0.00 | .66E-07 | 0.000 | .29E-05 | 90.000 |
| 119. | 3586.704 | .535 | .19E-05 | 0.00 | .67E-07 | 0.000 | .29E-05 | 90.000 |
| 120. | 3587.299 | .556 | .19E-05 | 0.00 | .68E-07 | 0.000 | .29E-05 | 90.000 |
| 121. | 3587.918 | .577 | .19E-05 | 0.00 | .69E-07 | 0.000 | .29E-05 | 90.000 |
| 122. | 3588.561 | .598 | .19E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 123. | 3589.225 | .618 | .19E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 124. | 3589.912 | .638 | .19E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 125. | 3590.621 | .658 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 126. | 3591.351 | .677 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 127. | 3592.101 | .695 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 128. | 3592.872 | .712 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 129. | 3593.661 | .729 | .20E-05 | 0.00 | .70E-07 | 0.000 | .30E-05 | 90.000 |
| 130. | 3594.468 | .745 | .20E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 131. | 3595.292 | .760 | .20E-05 | 0.00 | .69E-07 | 0.000 | .30E-05 | 90.000 |
| 132. | 3596.133 | .775 | .20E-05 | 0.00 | .68E-07 | 0.000 | .30E-05 | 90.000 |
| 133. | 3596.989 | .788 | .20E-05 | 0.00 | .68E-07 | 0.000 | .30E-05 | 90.000 |
| 134. | 3597.859 | .800 | .20E-05 | 0.00 | .67E-07 | 0.000 | .30E-05 | 90.000 |
| 135. | 3598.743 | .811 | .20E-05 | 0.00 | .66E-07 | 0.000 | .30E-05 | 90.000 |
| 136. | 3599.638 | .821 | .20E-05 | 0.00 | .65E-07 | 0.000 | .30E-05 | 90.000 |
| 137. | 3600.543 | .830 | .20E-05 | 0.00 | .64E-07 | 0.000 | .30E-05 | 90.000 |
| 138. | 3601.458 | .838 | .20E-05 | 0.00 | .63E-07 | 0.000 | .30E-05 | 90.000 |
| 139. | 3602.381 | .844 | .20E-05 | 0.00 | .62E-07 | 0.000 | .30E-05 | 90.000 |
| 140. | 3603.311 | .849 | .20E-05 | 0.00 | .60E-07 | 0.000 | .30E-05 | 90.000 |
| 141. | 3604.246 | .853 | .20E-05 | 0.00 | .59E-07 | 0.000 | .30E-05 | 90.000 |
| 142. | 3605.184 | .856 | .20E-05 | 0.00 | .58E-07 | 0.000 | .30E-05 | 90.000 |
| 143. | 3606.125 | .857 | .20E-05 | 0.00 | .56E-07 | 0.000 | .30E-05 | 90.000 |
| 144. | 3607.067 | .857 | .20E-05 | 0.00 | .55E-07 | 0.000 | .30E-05 | 90.000 |
| 145. | 3608.007 | .855 | .20E-05 | 0.00 | .53E-07 | 0.000 | .30E-05 | 90.000 |
| 146. | 3608.946 | .852 | .20E-05 | 0.00 | .52E-07 | 0.000 | .30E-05 | 90.000 |
| 147. | 3609.881 | .848 | .20E-05 | 0.00 | .50E-07 | 0.000 | .30E-05 | 90.000 |
| 148. | 3610.810 | .842 | .20E-05 | 0.00 | .48E-07 | 0.000 | .30E-05 | 90.000 |
| 149. | 3611.732 | .834 | .20E-05 | 0.00 | .47E-07 | 0.000 | .30E-05 | 90.000 |

110-CUT YTG

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 |
|---|---|---|---|---|---|---|---|---|
| 150. | 3612.645 | .826 | .20E-05 | 0.00 | .45E-07 | 0.000 | .30E-05 | 90.000 |
| 151. | 3613.548 | .815 | .20E-05 | 0.00 | .44E-07 | 0.000 | .30E-05 | 90.000 |
| 152. | 3614.439 | .803 | .20E-05 | 0.00 | .42E-07 | 0.000 | .30E-05 | 90.000 |
| 153. | 3615.317 | .790 | .20E-05 | 0.00 | .40E-07 | 0.000 | .30E-05 | 90.000 |
| 154. | 3616.180 | .776 | .20E-05 | 0.00 | .39E-07 | 0.000 | .30E-05 | 90.000 |
| 155. | 3617.025 | .759 | .20E-05 | 0.00 | .37E-07 | 0.000 | .30E-05 | 90.000 |
| 156. | 3617.853 | .742 | .20E-05 | 0.00 | .35E-07 | 0.000 | .30E-05 | 90.000 |
| 157. | 3618.660 | .723 | .20E-05 | 0.00 | .34E-07 | 0.000 | .30E-05 | 90.000 |
| 158. | 3619.446 | .703 | .20E-05 | 0.00 | .32E-07 | 0.000 | .30E-05 | 90.000 |
| 159. | 3620.210 | .681 | .20E-05 | 0.00 | .30E-07 | 0.000 | .30E-05 | 90.000 |
| 160. | 3620.948 | .658 | .20E-05 | 0.00 | .29E-07 | 0.000 | .30E-05 | 90.000 |
| 161. | 3621.661 | .634 | .20E-05 | 0.00 | .27E-07 | 0.000 | .30E-05 | 90.000 |
| 162. | 3622.347 | .609 | .20E-05 | 0.00 | .26E-07 | 0.000 | .30E-05 | 90.000 |
| 163. | 3623.004 | .582 | .20E-05 | 0.00 | .24E-07 | 0.000 | .30E-05 | 90.000 |
| 164. | 3623.631 | .554 | .20E-05 | 0.00 | .23E-07 | 0.000 | .30E-05 | 90.000 |
| 165. | 3624.227 | .525 | .20E-05 | 0.00 | .21E-07 | 0.000 | .30E-05 | 90.000 |
| 166. | 3624.791 | .495 | .20E-05 | 0.00 | .20E-07 | 0.000 | .30E-05 | 90.000 |
| 167. | 3625.321 | .464 | .20E-05 | 0.00 | .18E-07 | 0.000 | .30E-05 | 90.000 |
| 168. | 3625.816 | .432 | .20E-05 | 0.00 | .17E-07 | 0.000 | .30E-05 | 90.000 |
| 169. | 3626.276 | .400 | .20E-05 | 0.00 | .15E-07 | 0.000 | .30E-05 | 90.000 |
| 170. | 3626.699 | .366 | .20E-05 | 0.00 | .14E-07 | 0.000 | .30E-05 | 90.000 |
| 171. | 3627.084 | .332 | .20E-05 | 0.00 | .13E-07 | 0.000 | .30E-05 | 90.000 |
| 172. | 3627.431 | .297 | .20E-05 | 0.00 | .11E-07 | 0.000 | .30E-05 | 90.000 |
| 173. | 3627.739 | .261 | .20E-05 | 0.00 | .97E-08 | 0.000 | .30E-05 | 90.000 |
| 174. | 3628.008 | .225 | .20E-05 | 0.00 | .83E-08 | 0.000 | .30E-05 | 90.000 |
| 175. | 3628.236 | .188 | .20E-05 | 0.00 | .69E-08 | 0.000 | .30E-05 | 90.000 |
| 176. | 3628.423 | .151 | .20E-05 | 0.00 | .55E-08 | 0.000 | .30E-05 | 90.000 |
| 177. | 3628.569 | .113 | .20E-05 | 0.00 | .42E-08 | 0.000 | .30E-05 | 90.000 |
| 178. | 3628.674 | .076 | .20E-05 | 0.00 | .28E-08 | 0.000 | .30E-05 | 90.000 |
| 179. | 3628.736 | .038 | .20E-05 | 0.00 | .14E-08 | 0.000 | .30E-05 | 90.000 |
| 180. | 3628.757 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 90.000 |

X-AXIS BOULE ZINC OXIDE (SMITH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | OV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 2681.229 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .35E-05 | 90.000 | .140E+05 | -90.000 | 2668.198 | 0.000 | .00486 |
| 1. | 2681.187 | 0.000 | .20E-05 | 0.00 | .68E-08 | -90.000 | .35E-05 | 90.000 | .140E+05 | -90.000 | 2668.166 | 0.000 | .00486 |
| 2. | 2681.063 | 0.000 | .20E-05 | 0.00 | .14E-07 | -90.000 | .35E-05 | 90.000 | .140E+05 | -90.000 | 2668.069 | 0.000 | .00485 |
| 3. | 2680.856 | 0.000 | .20E-05 | 0.00 | .20E-07 | -90.000 | .35E-05 | 90.000 | .139E+05 | -90.000 | 2667.908 | 0.000 | .00483 |
| 4. | 2680.568 | 0.000 | .20E-05 | 0.00 | .27E-07 | -90.000 | .35E-05 | 90.000 | .139E+05 | -90.000 | 2667.684 | 0.000 | .00481 |
| 5. | 2680.201 | 0.000 | .20E-05 | 0.00 | .33E-07 | -90.000 | .35E-05 | 90.000 | .139E+05 | -90.000 | 2667.398 | 0.000 | .00478 |
| 6. | 2679.756 | 0.000 | .20E-05 | 0.00 | .40E-07 | -90.000 | .35E-05 | 90.000 | .138E+05 | -90.000 | 2667.051 | 0.000 | .00474 |
| 7. | 2679.237 | 0.000 | .20E-05 | 0.00 | .47E-07 | -90.000 | .35E-05 | 90.000 | .138E+05 | -90.000 | 2666.644 | 0.000 | .00470 |
| 8. | 2678.644 | 0.000 | .20E-05 | 0.00 | .53E-07 | -90.000 | .35E-05 | 90.000 | .137E+05 | -90.000 | 2666.180 | 0.000 | .00465 |
| 9. | 2677.983 | 0.000 | .20E-05 | 0.00 | .59E-07 | -90.000 | .35E-05 | 90.000 | .136E+05 | -90.000 | 2665.660 | 0.000 | .00460 |
| 10. | 2677.255 | 0.000 | .20E-05 | 0.00 | .66E-07 | -90.000 | .35E-05 | 90.000 | .135E+05 | -90.000 | 2665.087 | 0.000 | .00454 |
| 11. | 2676.465 | 0.000 | .20E-05 | 0.00 | .72E-07 | -90.000 | .35E-05 | 90.000 | .134E+05 | -90.000 | 2664.463 | 0.000 | .00448 |
| 12. | 2675.617 | 0.000 | .20E-05 | 0.00 | .78E-07 | -90.000 | .35E-05 | 90.000 | .133E+05 | -90.000 | 2663.791 | 0.000 | .00442 |
| 13. | 2674.713 | 0.000 | .20E-05 | 0.00 | .83E-07 | -90.000 | .35E-05 | 90.000 | .132E+05 | -90.000 | 2663.073 | 0.000 | .00435 |
| 14. | 2673.759 | 0.000 | .20E-05 | 0.00 | .89E-07 | -90.000 | .35E-05 | 90.000 | .131E+05 | -90.000 | 2662.312 | 0.000 | .00428 |
| 15. | 2672.759 | 0.000 | .20E-05 | 0.00 | .94E-07 | -90.000 | .35E-05 | 90.000 | .130E+05 | -90.000 | 2661.512 | 0.000 | .00421 |
| 16. | 2671.716 | 0.000 | .20E-05 | 0.00 | .99E-07 | -90.000 | .35E-05 | 90.000 | .129E+05 | -90.000 | 2660.675 | 0.000 | .00413 |
| 17. | 2670.635 | 0.000 | .20E-05 | 0.00 | .10E-06 | -90.000 | .35E-05 | 90.000 | .127E+05 | -90.000 | 2659.804 | 0.000 | .00406 |
| 18. | 2669.520 | 0.000 | .21E-05 | 0.00 | .11E-06 | -90.000 | .35E-05 | 90.000 | .126E+05 | -90.000 | 2658.904 | 0.000 | .00398 |
| 19. | 2668.376 | 0.000 | .21E-05 | 0.00 | .11E-06 | -90.000 | .35E-05 | 90.000 | .125E+05 | -90.000 | 2657.976 | 0.000 | .00390 |
| 20. | 2667.206 | 0.000 | .21E-05 | 0.00 | .12E-06 | -90.000 | .35E-05 | 90.000 | .124E+05 | -90.000 | 2657.025 | 0.000 | .00382 |
| 21. | 2666.015 | 0.000 | .21E-05 | 0.00 | .12E-06 | -90.000 | .35E-05 | 90.000 | .122E+05 | -90.000 | 2656.054 | 0.000 | .00374 |
| 22. | 2664.806 | 0.000 | .21E-05 | 0.00 | .12E-06 | -90.000 | .35E-05 | 90.000 | .121E+05 | -90.000 | 2655.066 | 0.000 | .00366 |
| 23. | 2663.583 | 0.000 | .21E-05 | 0.00 | .13E-06 | -90.000 | .35E-05 | 90.000 | .120E+05 | -90.000 | 2654.064 | 0.000 | .00357 |
| 24. | 2662.351 | 0.000 | .21E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .118E+05 | -90.000 | 2653.052 | 0.000 | .00349 |
| 25. | 2661.113 | 0.000 | .21E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .117E+05 | -90.000 | 2652.032 | 0.000 | .00341 |
| 26. | 2659.873 | 0.000 | .21E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .116E+05 | -90.000 | 2651.009 | 0.000 | .00333 |
| 27. | 2658.633 | 0.000 | .21E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .114E+05 | -90.000 | 2649.984 | 0.000 | .00325 |
| 28. | 2657.397 | 0.000 | .21E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .113E+05 | -90.000 | 2648.962 | 0.000 | .00317 |
| 29. | 2656.169 | 0.000 | .21E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .112E+05 | -90.000 | 2647.944 | 0.000 | .00310 |
| 30. | 2654.951 | 0.000 | .21E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .110E+05 | -90.000 | 2646.935 | 0.000 | .00302 |
| 31. | 2653.746 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .109E+05 | -90.000 | 2645.936 | 0.000 | .00294 |
| 32. | 2652.557 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .108E+05 | -90.000 | 2644.950 | 0.000 | .00287 |
| 33. | 2651.386 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .106E+05 | -90.000 | 2643.980 | 0.000 | .00279 |
| 34. | 2650.235 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .105E+05 | -90.000 | 2643.028 | 0.000 | .00272 |
| 35. | 2649.108 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .104E+05 | -90.000 | 2642.096 | 0.000 | .00265 |
| 36. | 2648.004 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .103E+05 | -90.000 | 2641.186 | 0.000 | .00257 |
| 37. | 2646.928 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .101E+05 | -90.000 | 2640.301 | 0.000 | .00250 |
| 38. | 2645.879 | 0.000 | .22E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .999E+04 | -90.000 | 2639.441 | 0.000 | .00243 |
| 39. | 2644.861 | 0.000 | .22E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .986E+04 | -90.000 | 2638.609 | 0.000 | .00236 |
| 40. | 2643.873 | 0.000 | .22E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .973E+04 | -90.000 | 2637.806 | 0.000 | .00229 |
| 41. | 2642.918 | 0.000 | .22E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .959E+04 | -90.000 | 2637.034 | 0.000 | .00223 |
| 42. | 2641.995 | 0.000 | .22E-05 | 0.00 | .12E-06 | -90.000 | .36E-05 | 90.000 | .945E+04 | -90.000 | 2636.292 | 0.000 | .00216 |
| 43. | 2641.107 | 0.000 | .22E-05 | 0.00 | .12E-06 | -90.000 | .36E-05 | 90.000 | .932E+04 | -90.000 | 2635.583 | 0.000 | .00209 |
| 44. | 2640.253 | 0.000 | .22E-05 | 0.00 | .12E-06 | -90.000 | .36E-05 | 90.000 | .918E+04 | -90.000 | 2634.907 | 0.000 | .00202 |
| 45. | 2639.435 | 0.000 | .22E-05 | 0.00 | .12E-06 | -90.000 | .36E-05 | 90.000 | .903E+04 | -90.000 | 2634.265 | 0.000 | .00196 |
| 46. | 2638.651 | 0.000 | .22E-05 | 0.00 | .11E-06 | -90.000 | .36E-05 | 90.000 | .889E+04 | -90.000 | 2633.657 | 0.000 | .00189 |
| 47. | 2637.904 | 0.000 | .22E-05 | 0.00 | .11E-06 | -90.000 | .36E-05 | 90.000 | .875E+04 | -90.000 | 2633.082 | 0.000 | .00183 |
| 48. | 2637.192 | 0.000 | .22E-05 | 0.00 | .10E-06 | -90.000 | .36E-05 | 90.000 | .860E+04 | -90.000 | 2632.543 | 0.000 | .00176 |
| 49. | 2636.516 | 0.000 | .22E-05 | 0.00 | .10E-06 | -90.000 | .36E-05 | 90.000 | .845E+04 | -90.000 | 2632.037 | 0.000 | .00170 |

X-AXIS BOULE ZINC OXIDE (SMITH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2635.875 | 0.000 | .23E-05 | 0.00 | .98E-07 | -90.000 | .36E-05 | 90.000 | .829E+04 | -90.000 | 2631.565 | 0.000 | .00164 |
| 51. | 2635.270 | 0.000 | .23E-05 | 0.00 | .94E-07 | -90.000 | .36E-05 | 90.000 | .814E+04 | -90.000 | 2631.127 | 0.000 | .00157 |
| 52. | 2634.698 | 0.000 | .23E-05 | 0.00 | .90E-07 | -90.000 | .36E-05 | 90.000 | .798E+04 | -90.000 | 2630.722 | 0.000 | .00151 |
| 53. | 2634.160 | 0.000 | .23E-05 | 0.00 | .87E-07 | -90.000 | .36E-05 | 90.000 | .782E+04 | -90.000 | 2630.349 | 0.000 | .00145 |
| 54. | 2633.656 | 0.000 | .23E-05 | 0.00 | .83E-07 | -90.000 | .36E-05 | 90.000 | .765E+04 | -90.000 | 2630.008 | 0.000 | .00139 |
| 55. | 2633.183 | 0.000 | .23E-05 | 0.00 | .79E-07 | -90.000 | .36E-05 | 90.000 | .749E+04 | -90.000 | 2629.696 | 0.000 | .00132 |
| 56. | 2632.742 | 0.000 | .23E-05 | 0.00 | .75E-07 | -90.000 | .36E-05 | 90.000 | .731E+04 | -90.000 | 2629.415 | 0.000 | .00126 |
| 57. | 2632.331 | 0.000 | .23E-05 | 0.00 | .71E-07 | -90.000 | .36E-05 | 90.000 | .714E+04 | -90.000 | 2629.162 | 0.000 | .00120 |
| 58. | 2631.949 | 0.000 | .23E-05 | 0.00 | .68E-07 | -90.000 | .36E-05 | 90.000 | .696E+04 | -90.000 | 2628.935 | 0.000 | .00115 |
| 59. | 2631.594 | 0.000 | .23E-05 | 0.00 | .64E-07 | -90.000 | .36E-05 | 90.000 | .678E+04 | -90.000 | 2628.735 | 0.000 | .00109 |
| 60. | 2631.267 | 0.000 | .23E-05 | 0.00 | .60E-07 | -90.000 | .36E-05 | 90.000 | .660E+04 | -90.000 | 2628.559 | 0.000 | .00103 |
| 61. | 2630.965 | 0.000 | .23E-05 | 0.00 | .57E-07 | -90.000 | .36E-05 | 90.000 | .641E+04 | -90.000 | 2628.406 | 0.000 | .00097 |
| 62. | 2630.687 | 0.000 | .23E-05 | 0.00 | .53E-07 | -90.000 | .36E-05 | 90.000 | .622E+04 | -90.000 | 2628.274 | 0.000 | .00092 |
| 63. | 2630.431 | 0.000 | .23E-05 | 0.00 | .50E-07 | -90.000 | .36E-05 | 90.000 | .603E+04 | -90.000 | 2628.163 | 0.000 | .00086 |
| 64. | 2630.198 | 0.000 | .23E-05 | 0.00 | .46E-07 | -90.000 | .36E-05 | 90.000 | .584E+04 | -90.000 | 2628.070 | 0.000 | .00081 |
| 65. | 2629.984 | 0.000 | .23E-05 | 0.00 | .43E-07 | -90.000 | .36E-05 | 90.000 | .564E+04 | -90.000 | 2627.995 | 0.000 | .00076 |
| 66. | 2629.789 | 0.000 | .23E-05 | 0.00 | .40E-07 | -90.000 | .36E-05 | 90.000 | .544E+04 | -90.000 | 2627.935 | 0.000 | .00070 |
| 67. | 2629.612 | 0.000 | .23E-05 | 0.00 | .37E-07 | -90.000 | .36E-05 | 90.000 | .523E+04 | -90.000 | 2627.890 | 0.000 | .00065 |
| 68. | 2629.451 | 0.000 | .23E-05 | 0.00 | .34E-07 | -90.000 | .36E-05 | 90.000 | .503E+04 | -90.000 | 2627.858 | 0.000 | .00061 |
| 69. | 2629.305 | 0.000 | .23E-05 | 0.00 | .31E-07 | -90.000 | .36E-05 | 90.000 | .482E+04 | -90.000 | 2627.838 | 0.000 | .00056 |
| 70. | 2629.173 | 0.000 | .23E-05 | 0.00 | .28E-07 | -90.000 | .36E-05 | 90.000 | .461E+04 | -90.000 | 2627.828 | 0.000 | .00051 |
| 71. | 2629.055 | 0.000 | .23E-05 | 0.00 | .26E-07 | -90.000 | .36E-05 | 90.000 | .439E+04 | -90.000 | 2627.827 | 0.000 | .00047 |
| 72. | 2628.948 | 0.000 | .23E-05 | 0.00 | .23E-07 | -90.000 | .36E-05 | 90.000 | .418E+04 | -90.000 | 2627.834 | 0.000 | .00042 |
| 73. | 2628.852 | 0.000 | .23E-05 | 0.00 | .21E-07 | -90.000 | .36E-05 | 90.000 | .396E+04 | -90.000 | 2627.847 | 0.000 | .00038 |
| 74. | 2628.765 | 0.000 | .23E-05 | 0.00 | .19E-07 | -90.000 | .36E-05 | 90.000 | .374E+04 | -90.000 | 2627.867 | 0.000 | .00034 |
| 75. | 2628.688 | 0.000 | .23E-05 | 0.00 | .17E-07 | -90.000 | .36E-05 | 90.000 | .352E+04 | -90.000 | 2627.890 | 0.000 | .00030 |
| 76. | 2628.620 | 0.000 | .23E-05 | 0.00 | .15E-07 | -90.000 | .36E-05 | 90.000 | .329E+04 | -90.000 | 2627.918 | 0.000 | .00027 |
| 77. | 2628.559 | 0.000 | .23E-05 | 0.00 | .13E-07 | -90.000 | .36E-05 | 90.000 | .307E+04 | -90.000 | 2627.948 | 0.000 | .00023 |
| 78. | 2628.505 | 0.000 | .23E-05 | 0.00 | .12E-07 | -90.000 | .36E-05 | 90.000 | .284E+04 | -90.000 | 2627.979 | 0.000 | .00020 |
| 79. | 2628.457 | 0.000 | .23E-05 | 0.00 | .10E-07 | -90.000 | .36E-05 | 90.000 | .261E+04 | -90.000 | 2628.012 | 0.000 | .00017 |
| 80. | 2628.415 | 0.000 | .23E-05 | 0.00 | .90E-08 | -90.000 | .36E-05 | 90.000 | .238E+04 | -90.000 | 2628.044 | 0.000 | .00014 |
| 81. | 2628.378 | 0.000 | .23E-05 | 0.00 | .78E-08 | -90.000 | .36E-05 | 90.000 | .215E+04 | -90.000 | 2628.076 | 0.000 | .00011 |
| 82. | 2628.347 | 0.000 | .23E-05 | 0.00 | .66E-08 | -90.000 | .36E-05 | 90.000 | .191E+04 | -90.000 | 2628.106 | 0.000 | .00009 |
| 83. | 2628.320 | 0.000 | .23E-05 | 0.00 | .56E-08 | -90.000 | .36E-05 | 90.000 | .168E+04 | -90.000 | 2628.134 | 0.000 | .00007 |
| 84. | 2628.297 | 180.000 | .23E-05 | 0.00 | .46E-08 | -90.000 | .36E-05 | 90.000 | .144E+04 | -90.000 | 2628.160 | 0.000 | .00005 |
| 85. | 2628.278 | 180.000 | .23E-05 | 0.00 | .37E-08 | -90.000 | .36E-05 | 90.000 | .120E+04 | -90.000 | 2628.182 | 0.000 | .00004 |
| 86. | 2628.263 | 180.000 | .23E-05 | 0.00 | .29E-08 | -90.000 | .36E-05 | 90.000 | .962E+03 | -90.000 | 2628.201 | 0.000 | .00002 |
| 87. | 2628.251 | 180.000 | .23E-05 | 0.00 | .22E-08 | -90.000 | .36E-05 | 90.000 | .722E+03 | -90.000 | 2628.216 | 0.000 | .00001 |
| 88. | 2628.243 | 180.000 | .23E-05 | 0.00 | .14E-08 | -90.000 | .36E-05 | 90.000 | .482E+03 | -90.000 | 2628.227 | 0.000 | .00001 |
| 89. | 2628.238 | 180.000 | .23E-05 | 0.00 | .70E-09 | -90.000 | .36E-05 | 90.000 | .241E+03 | -90.000 | 2628.234 | 0.000 | 0.00000 |
| 90. | 2628.236 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 90.000 | 0. | 0.000 | 2628.236 | 0.000 | 0.00000 |
| 91. | 2628.238 | 180.000 | .23E-05 | 0.00 | .70E-09 | 90.000 | .36E-05 | 90.000 | .241E+03 | 90.000 | 2628.234 | 0.000 | 0.00000 |
| 92. | 2628.243 | 180.000 | .23E-05 | 0.00 | .14E-08 | 90.000 | .36E-05 | 90.000 | .482E+03 | 90.000 | 2628.227 | 0.000 | .00001 |
| 93. | 2628.251 | 180.000 | .23E-05 | 0.00 | .22E-08 | 90.000 | .36E-05 | 90.000 | .722E+03 | 90.000 | 2628.216 | 0.000 | .00001 |
| 94. | 2628.263 | 180.000 | .23E-05 | 0.00 | .29E-08 | 90.000 | .36E-05 | 90.000 | .962E+03 | 90.000 | 2628.201 | 0.000 | .00002 |
| 95. | 2628.278 | 180.000 | .23E-05 | 0.00 | .37E-08 | 90.000 | .36E-05 | 90.000 | .120E+04 | 90.000 | 2628.182 | 0.000 | .00004 |
| 96. | 2628.297 | 180.000 | .23E-05 | 0.00 | .46E-08 | 90.000 | .36E-05 | 90.000 | .144E+04 | 90.000 | 2628.160 | 0.000 | .00005 |
| 97. | 2628.320 | 0.000 | .23E-05 | 0.00 | .56E-08 | 90.000 | .36E-05 | 90.000 | .168E+04 | 90.000 | 2628.134 | 0.000 | .00007 |
| 98. | 2628.347 | 0.000 | .23E-05 | 0.00 | .66E-08 | 90.000 | .36E-05 | 90.000 | .191E+04 | 90.000 | 2628.106 | 0.000 | .00009 |
| 99. | 2628.378 | 0.000 | .23E-05 | 0.00 | .78E-08 | 90.000 | .36E-05 | 90.000 | .215E+04 | 90.000 | 2628.076 | 0.000 | .00011 |

X-AXIS BOULE ZINC OXIDE (SMITH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | OV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 2628.415 | 0.000 | .23E-05 | 0.00 | .90E-08 | 90.000 | .36E-05 | 90.000 | .238E+04 | 90.000 | 2628.044 | 0.000 | .00014 |
| 101. | 2628.457 | 0.000 | .23E-05 | 0.00 | .10E-07 | 90.000 | .36E-05 | 90.000 | .261E+04 | 90.000 | 2628.012 | 0.000 | .00017 |
| 102. | 2628.505 | 0.000 | .23E-05 | 0.00 | .12E-07 | 90.000 | .36E-05 | 90.000 | .284E+04 | 90.000 | 2627.979 | 0.000 | .00020 |
| 103. | 2628.559 | 0.000 | .23E-05 | 0.00 | .13E-07 | 90.000 | .36E-05 | 90.000 | .307E+04 | 90.000 | 2627.948 | 0.000 | .00023 |
| 104. | 2628.620 | 0.000 | .23E-05 | 0.00 | .15E-07 | 90.000 | .36E-05 | 90.000 | .329E+04 | 90.000 | 2627.918 | 0.000 | .00027 |
| 105. | 2628.688 | 0.000 | .23E-05 | 0.00 | .17E-07 | 90.000 | .36E-05 | 90.000 | .352E+04 | 90.000 | 2627.890 | 0.000 | .00030 |
| 106. | 2628.765 | 0.000 | .23E-05 | 0.00 | .19E-07 | 90.000 | .36E-05 | 90.000 | .374E+04 | 90.000 | 2627.867 | 0.000 | .00034 |
| 107. | 2628.852 | 0.000 | .23E-05 | 0.00 | .21E-07 | 90.000 | .36E-05 | 90.000 | .396E+04 | 90.000 | 2627.847 | 0.000 | .00038 |
| 108. | 2628.948 | 0.000 | .23E-05 | 0.00 | .23E-07 | 90.000 | .36E-05 | 90.000 | .418E+04 | 90.000 | 2627.834 | 0.000 | .00042 |
| 109. | 2629.055 | 0.000 | .23E-05 | 0.00 | .26E-07 | 90.000 | .36E-05 | 90.000 | .439E+04 | 90.000 | 2627.827 | 0.000 | .00047 |
| 110. | 2629.173 | 0.000 | .23E-05 | 0.00 | .28E-07 | 90.000 | .36E-05 | 90.000 | .461E+04 | 90.000 | 2627.828 | 0.000 | .00051 |
| 111. | 2629.305 | 0.000 | .23E-05 | 0.00 | .31E-07 | 90.000 | .36E-05 | 90.000 | .482E+04 | 90.000 | 2627.838 | 0.000 | .00056 |
| 112. | 2629.451 | 0.000 | .23E-05 | 0.00 | .34E-07 | 90.000 | .36E-05 | 90.000 | .503E+04 | 90.000 | 2627.858 | 0.000 | .00061 |
| 113. | 2629.612 | 0.000 | .23E-05 | 0.00 | .37E-07 | 90.000 | .36E-05 | 90.000 | .523E+04 | 90.000 | 2627.890 | 0.000 | .00065 |
| 114. | 2629.789 | 0.000 | .23E-05 | 0.00 | .40E-07 | 90.000 | .36E-05 | 90.000 | .544E+04 | 90.000 | 2627.935 | 0.000 | .00070 |
| 115. | 2629.984 | 0.000 | .23E-05 | 0.00 | .43E-07 | 90.000 | .36E-05 | 90.000 | .564E+04 | 90.000 | 2627.995 | 0.000 | .00076 |
| 116. | 2630.198 | 0.000 | .23E-05 | 0.00 | .46E-07 | 90.000 | .36E-05 | 90.000 | .584E+04 | 90.000 | 2628.070 | 0.000 | .00081 |
| 117. | 2630.431 | 0.000 | .23E-05 | 0.00 | .50E-07 | 90.000 | .36E-05 | 90.000 | .603E+04 | 90.000 | 2628.163 | 0.000 | .00086 |
| 118. | 2630.687 | 0.000 | .23E-05 | 0.00 | .53E-07 | 90.000 | .36E-05 | 90.000 | .622E+04 | 90.000 | 2628.274 | 0.000 | .00092 |
| 119. | 2630.965 | 0.000 | .23E-05 | 0.00 | .57E-07 | 90.000 | .36E-05 | 90.000 | .641E+04 | 90.000 | 2628.406 | 0.000 | .00097 |
| 120. | 2631.267 | 0.000 | .23E-05 | 0.00 | .60E-07 | 90.000 | .36E-05 | 90.000 | .660E+04 | 90.000 | 2628.559 | 0.000 | .00103 |
| 121. | 2631.594 | 0.000 | .23E-05 | 0.00 | .64E-07 | 90.000 | .36E-05 | 90.000 | .678E+04 | 90.000 | 2628.735 | 0.000 | .00109 |
| 122. | 2631.949 | 0.000 | .23E-05 | 0.00 | .68E-07 | 90.000 | .36E-05 | 90.000 | .696E+04 | 90.000 | 2628.935 | 0.000 | .00115 |
| 123. | 2632.331 | 0.000 | .23E-05 | 0.00 | .71E-07 | 90.000 | .36E-05 | 90.000 | .714E+04 | 90.000 | 2629.162 | 0.000 | .00120 |
| 124. | 2632.742 | 0.000 | .23E-05 | 0.00 | .75E-07 | 90.000 | .36E-05 | 90.000 | .731E+04 | 90.000 | 2629.415 | 0.000 | .00126 |
| 125. | 2633.183 | 0.000 | .23E-05 | 0.00 | .79E-07 | 90.000 | .36E-05 | 90.000 | .749E+04 | 90.000 | 2629.696 | 0.000 | .00132 |
| 126. | 2633.656 | 0.000 | .23E-05 | 0.00 | .83E-07 | 90.000 | .36E-05 | 90.000 | .765E+04 | 90.000 | 2630.008 | 0.000 | .00139 |
| 127. | 2634.160 | 0.000 | .23E-05 | 0.00 | .87E-07 | 90.000 | .36E-05 | 90.000 | .782E+04 | 90.000 | 2630.349 | 0.000 | .00145 |
| 128. | 2634.698 | 0.000 | .23E-05 | 0.00 | .90E-07 | 90.000 | .36E-05 | 90.000 | .798E+04 | 90.000 | 2630.722 | 0.000 | .00151 |
| 129. | 2635.270 | 0.000 | .23E-05 | 0.00 | .94E-07 | 90.000 | .36E-05 | 90.000 | .814E+04 | 90.000 | 2631.127 | 0.000 | .00157 |
| 130. | 2635.875 | 0.000 | .23E-05 | 0.00 | .98E-07 | 90.000 | .36E-05 | 90.000 | .829E+04 | 90.000 | 2631.565 | 0.000 | .00164 |
| 131. | 2636.516 | 0.000 | .22E-05 | 0.00 | .10E-06 | 90.000 | .36E-05 | 90.000 | .845E+04 | 90.000 | 2632.037 | 0.000 | .00170 |
| 132. | 2637.192 | 0.000 | .22E-05 | 0.00 | .10E-06 | 90.000 | .36E-05 | 90.000 | .860E+04 | 90.000 | 2632.543 | 0.000 | .00176 |
| 133. | 2637.904 | 0.000 | .22E-05 | 0.00 | .11E-06 | 90.000 | .36E-05 | 90.000 | .875E+04 | 90.000 | 2633.082 | 0.000 | .00183 |
| 134. | 2638.651 | 0.000 | .22E-05 | 0.00 | .11E-06 | 90.000 | .36E-05 | 90.000 | .889E+04 | 90.000 | 2633.657 | 0.000 | .00189 |
| 135. | 2639.435 | 0.000 | .22E-05 | 0.00 | .12E-06 | 90.000 | .36E-05 | 90.000 | .903E+04 | 90.000 | 2634.265 | 0.000 | .00196 |
| 136. | 2640.253 | 0.000 | .22E-05 | 0.00 | .12E-06 | 90.000 | .36E-05 | 90.000 | .918E+04 | 90.000 | 2634.907 | 0.000 | .00202 |
| 137. | 2641.107 | 0.000 | .22E-05 | 0.00 | .12E-06 | 90.000 | .36E-05 | 90.000 | .932E+04 | 90.000 | 2635.583 | 0.000 | .00209 |
| 138. | 2641.995 | 0.000 | .22E-05 | 0.00 | .12E-06 | 90.000 | .36E-05 | 90.000 | .945E+04 | 90.000 | 2636.292 | 0.000 | .00216 |
| 139. | 2642.918 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .959E+04 | 90.000 | 2637.034 | 0.000 | .00223 |
| 140. | 2643.873 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .973E+04 | 90.000 | 2637.806 | 0.000 | .00229 |
| 141. | 2644.861 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .986E+04 | 90.000 | 2638.609 | 0.000 | .00236 |
| 142. | 2645.879 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .999E+04 | 90.000 | 2639.441 | 0.000 | .00243 |
| 143. | 2646.928 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .101E+05 | 90.000 | 2640.301 | 0.000 | .00250 |
| 144. | 2648.004 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .103E+05 | 90.000 | 2641.186 | 0.000 | .00257 |
| 145. | 2649.108 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .104E+05 | 90.000 | 2642.096 | 0.000 | .00265 |
| 146. | 2650.235 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .105E+05 | 90.000 | 2643.028 | 0.000 | .00272 |
| 147. | 2651.386 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .106E+05 | 90.000 | 2643.980 | 0.000 | .00279 |
| 148. | 2652.557 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .108E+05 | 90.000 | 2644.950 | 0.000 | .00287 |
| 149. | 2653.746 | 0.000 | .22E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .109E+05 | 90.000 | 2645.936 | 0.000 | .00294 |

X-AXIS BOULE ZINC OXIDE (SMITH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2654.951 | 0.000 | .21E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .110E+05 | 90.000 | 2646.935 | 0.000 | .00302 |
| 151. | 2656.169 | 0.000 | .21E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .112E+05 | 90.000 | 2647.944 | 0.000 | .00310 |
| 152. | 2657.397 | 0.000 | .21E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .113E+05 | 90.000 | 2648.962 | 0.000 | .00317 |
| 153. | 2658.633 | 0.000 | .21E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .114E+05 | 90.000 | 2649.984 | 0.000 | .00325 |
| 154. | 2659.873 | 0.000 | .21E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .116E+05 | 90.000 | 2651.009 | 0.000 | .00333 |
| 155. | 2661.113 | 0.000 | .21E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .117E+05 | 90.000 | 2652.032 | 0.000 | .00341 |
| 156. | 2662.351 | 0.000 | .21E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .118E+05 | 90.000 | 2653.052 | 0.000 | .00349 |
| 157. | 2663.583 | 0.000 | .21E-05 | 0.00 | .13E-06 | 90.000 | .35E-05 | 90.000 | .120E+05 | 90.000 | 2654.064 | 0.000 | .00357 |
| 158. | 2664.806 | 0.000 | .21E-05 | 0.00 | .12E-06 | 90.000 | .35E-05 | 90.000 | .121E+05 | 90.000 | 2655.066 | 0.000 | .00366 |
| 159. | 2666.015 | 0.000 | .21E-05 | 0.00 | .12E-06 | 90.000 | .35E-05 | 90.000 | .122E+05 | 90.000 | 2656.054 | 0.000 | .00374 |
| 160. | 2667.206 | 0.000 | .21E-05 | 0.00 | .12E-06 | 90.000 | .35E-05 | 90.000 | .124E+05 | 90.000 | 2657.025 | 0.000 | .00382 |
| 161. | 2668.376 | 0.000 | .21E-05 | 0.00 | .11E-06 | 90.000 | .35E-05 | 90.000 | .125E+05 | 90.000 | 2657.976 | 0.000 | .00390 |
| 162. | 2669.520 | 0.000 | .21E-05 | 0.00 | .11E-06 | 90.000 | .35E-05 | 90.000 | .126E+05 | 90.000 | 2658.904 | 0.000 | .00398 |
| 163. | 2670.635 | 0.000 | .20E-05 | 0.00 | .10E-06 | 90.000 | .35E-05 | 90.000 | .127E+05 | 90.000 | 2659.804 | 0.000 | .00406 |
| 164. | 2671.716 | 0.000 | .20E-05 | 0.00 | .99E-07 | 90.000 | .35E-05 | 90.000 | .129E+05 | 90.000 | 2660.675 | 0.000 | .00413 |
| 165. | 2672.759 | 0.000 | .20E-05 | 0.00 | .94E-07 | 90.000 | .35E-05 | 90.000 | .130E+05 | 90.000 | 2661.512 | 0.000 | .00421 |
| 166. | 2673.759 | 0.000 | .20E-05 | 0.00 | .89E-07 | 90.000 | .35E-05 | 90.000 | .131E+05 | 90.000 | 2662.312 | 0.000 | .00428 |
| 167. | 2674.713 | 0.000 | .20E-05 | 0.00 | .83E-07 | 90.000 | .35E-05 | 90.000 | .132E+05 | 90.000 | 2663.073 | 0.000 | .00435 |
| 168. | 2675.617 | 0.000 | .20E-05 | 0.00 | .78E-07 | 90.000 | .35E-05 | 90.000 | .133E+05 | 90.000 | 2663.791 | 0.000 | .00442 |
| 169. | 2676.465 | 0.000 | .20E-05 | 0.00 | .72E-07 | 90.000 | .35E-05 | 90.000 | .134E+05 | 90.000 | 2664.463 | 0.000 | .00448 |
| 170. | 2677.255 | 0.000 | .20E-05 | 0.00 | .66E-07 | 90.000 | .35E-05 | 90.000 | .135E+05 | 90.000 | 2665.087 | 0.000 | .00454 |
| 171. | 2677.983 | 0.000 | .20E-05 | 0.00 | .59E-07 | 90.000 | .35E-05 | 90.000 | .136E+05 | 90.000 | 2665.660 | 0.000 | .00460 |
| 172. | 2678.644 | 0.000 | .20E-05 | 0.00 | .53E-07 | 90.000 | .35E-05 | 90.000 | .137E+05 | 90.000 | 2666.180 | 0.000 | .00465 |
| 173. | 2679.237 | 0.000 | .20E-05 | 0.00 | .47E-07 | 90.000 | .35E-05 | 90.000 | .138E+05 | 90.000 | 2666.644 | 0.000 | .00470 |
| 174. | 2679.756 | 0.000 | .20E-05 | 0.00 | .40E-07 | 90.000 | .35E-05 | 90.000 | .138E+05 | 90.000 | 2667.051 | 0.000 | .00474 |
| 175. | 2680.201 | 0.000 | .20E-05 | 0.00 | .33E-07 | 90.000 | .35E-05 | 90.000 | .139E+05 | 90.000 | 2667.398 | 0.000 | .00478 |
| 176. | 2680.568 | 0.000 | .20E-05 | 0.00 | .27E-07 | 90.000 | .35E-05 | 90.000 | .139E+05 | 90.000 | 2667.684 | 0.000 | .00481 |
| 177. | 2680.856 | 0.000 | .20E-05 | 0.00 | .20E-07 | 90.000 | .35E-05 | 90.000 | .139E+05 | 90.000 | 2667.908 | 0.000 | .00483 |
| 178. | 2681.063 | 0.000 | .20E-05 | 0.00 | .14E-07 | 90.000 | .35E-05 | 90.000 | .140E+05 | 90.000 | 2668.069 | 0.000 | .00485 |
| 179. | 2681.187 | 0.000 | .20E-05 | 0.00 | .68E-08 | 90.000 | .35E-05 | 90.000 | .140E+05 | 90.000 | 2668.166 | 0.000 | .00486 |
| 180. | 2681.229 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .35E-05 | 90.000 | .140E+05 | 90.000 | 2668.198 | 0.000 | .00486 |

# Appendix A

## Data Using Nonstandard Material Constants

The data in Appendix A corresponds to the curves[1] of Appendix B of Volume 1A. In addition, Y-cut $LiNbO_3$ calculations are given for the constants measured[4] by Korolyuk et al.

4. Korolyuk, A. P., Matsalsov, L. Ya., and Vasil'chenko, V. V. (1971) Determination of elastic and piezoelectric constants of lithium niobate single crystals, Soviet Physics - Crystallography 15:873-896.

Z-CUT BISMUTH GERMANIUM OXIDE (SLOBODNIK AND SETHARES)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 1621.873 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 | 0. | 0.000 | 1621.873 | 0.000 | 0.00000 |
| 1. | 1621.908 | .143 | .19E-05 | 0.00 | .54E-07 | 0.000 | .39E-05 | 90.000 | .322E+03 | 90.000 | 1621.889 | .065 | .00001 |
| 2. | 1622.017 | .299 | .19E-05 | 0.00 | .11E-06 | 0.000 | .39E-05 | 90.000 | .646E+03 | 90.000 | 1621.940 | .144 | .00005 |
| 3. | 1622.208 | .478 | .19E-05 | 0.00 | .16E-06 | 0.000 | .39E-05 | 90.000 | .972E+03 | 90.000 | 1622.035 | .246 | .00011 |
| 4. | 1622.493 | .681 | .20E-05 | 0.00 | .22E-06 | 0.000 | .39E-05 | 90.000 | .130E+04 | 90.000 | 1622.188 | .377 | .00019 |
| 5. | 1622.885 | .907 | .20E-05 | 0.00 | .27E-06 | 0.000 | .39E-05 | 90.000 | .163E+04 | 90.000 | 1622.412 | .534 | .00029 |
| 6. | 1623.393 | 1.150 | .20E-05 | 0.00 | .32E-06 | 0.000 | .39E-05 | 90.000 | .196E+04 | 90.000 | 1622.721 | .716 | .00041 |
| 7. | 1624.025 | 1.405 | .20E-05 | 0.00 | .38E-06 | 0.000 | .39E-05 | 90.000 | .229E+04 | 90.000 | 1623.124 | .917 | .00055 |
| 8. | 1624.784 | 1.665 | .20E-05 | 0.00 | .42E-06 | 0.000 | .39E-05 | 90.000 | .261E+04 | 90.000 | 1623.629 | 1.131 | .00071 |
| 9. | 1625.674 | 1.927 | .20E-05 | 0.00 | .46E-06 | 0.000 | .39E-05 | 90.000 | .292E+04 | 90.000 | 1624.243 | 1.352 | .00088 |
| 10. | 1626.693 | 2.185 | .20E-05 | 0.00 | .50E-06 | 0.000 | .39E-05 | 90.000 | .322E+04 | 90.000 | 1624.968 | 1.577 | .00106 |
| 11. | 1627.839 | 2.437 | .20E-05 | 0.00 | .53E-06 | 0.000 | .39E-05 | 90.000 | .352E+04 | 90.000 | 1625.804 | 1.800 | .00125 |
| 12. | 1629.109 | 2.678 | .21E-05 | 0.00 | .56E-06 | 0.000 | .39E-05 | 90.000 | .381E+04 | 90.000 | 1626.750 | 2.017 | .00145 |
| 13. | 1630.497 | 2.908 | .21E-05 | 0.00 | .59E-06 | 0.000 | .39E-05 | 90.000 | .409E+04 | 90.000 | 1627.803 | 2.226 | .00165 |
| 14. | 1631.998 | 3.123 | .21E-05 | 0.00 | .61E-06 | 0.000 | .39E-05 | 90.000 | .436E+04 | 90.000 | 1628.958 | 2.424 | .00186 |
| 15. | 1633.603 | 3.321 | .21E-05 | 0.00 | .62E-06 | 0.000 | .40E-05 | 90.000 | .462E+04 | 90.000 | 1630.208 | 2.609 | .00208 |
| 16. | 1635.304 | 3.501 | .21E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .487E+04 | 90.000 | 1631.548 | 2.778 | .00230 |
| 17. | 1637.092 | 3.662 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .511E+04 | 90.000 | 1632.969 | 2.930 | .00252 |
| 18. | 1638.958 | 3.802 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .535E+04 | 90.000 | 1634.463 | 3.064 | .00274 |
| 19. | 1640.891 | 3.920 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .558E+04 | 90.000 | 1636.020 | 3.179 | .00297 |
| 20. | 1642.879 | 4.016 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .580E+04 | 90.000 | 1637.631 | 3.274 | .00319 |
| 21. | 1644.913 | 4.089 | .23E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .601E+04 | 90.000 | 1639.287 | 3.348 | .00342 |
| 22. | 1646.980 | 4.138 | .23E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .622E+04 | 90.000 | 1640.976 | 3.402 | .00365 |
| 23. | 1649.069 | 4.164 | .23E-05 | 0.00 | .62E-06 | 0.000 | .41E-05 | 90.000 | .642E+04 | 90.000 | 1642.688 | 3.435 | .00387 |
| 24. | 1651.167 | 4.167 | .23E-05 | 0.00 | .60E-06 | 0.000 | .41E-05 | 90.000 | .661E+04 | 90.000 | 1644.414 | 3.446 | .00409 |
| 25. | 1653.264 | 4.146 | .23E-05 | 0.00 | .59E-06 | 0.000 | .41E-05 | 90.000 | .679E+04 | 90.000 | 1646.142 | 3.437 | .00431 |
| 26. | 1655.347 | 4.102 | .24E-05 | 0.00 | .57E-06 | 0.000 | .41E-05 | 90.000 | .696E+04 | 90.000 | 1647.862 | 3.408 | .00452 |
| 27. | 1657.404 | 4.036 | .24E-05 | 0.00 | .55E-06 | 0.000 | .41E-05 | 90.000 | .713E+04 | 90.000 | 1649.564 | 3.359 | .00473 |
| 28. | 1659.425 | 3.947 | .24E-05 | 0.00 | .53E-06 | 0.000 | .41E-05 | 90.000 | .729E+04 | 90.000 | 1651.238 | 3.290 | .00493 |
| 29. | 1661.397 | 3.837 | .24E-05 | 0.00 | .51E-06 | 0.000 | .41E-05 | 90.000 | .744E+04 | 90.000 | 1652.874 | 3.202 | .00513 |
| 30. | 1663.311 | 3.706 | .24E-05 | 0.00 | .48E-06 | 0.000 | .41E-05 | 90.000 | .758E+04 | 90.000 | 1654.462 | 3.096 | .00532 |
| 31. | 1665.154 | 3.555 | .24E-05 | 0.00 | .46E-06 | 0.000 | .41E-05 | 90.000 | .771E+04 | 90.000 | 1655.995 | 2.973 | .00550 |
| 32. | 1666.918 | 3.385 | .25E-05 | 0.00 | .43E-06 | 0.000 | .41E-05 | 90.000 | .784E+04 | 90.000 | 1657.461 | 2.833 | .00567 |
| 33. | 1668.593 | 3.197 | .25E-05 | 0.00 | .40E-06 | 0.000 | .41E-05 | 90.000 | .795E+04 | 90.000 | 1658.855 | 2.678 | .00584 |
| 34. | 1670.168 | 2.992 | .25E-05 | 0.00 | .37E-06 | 0.000 | .41E-05 | 90.000 | .806E+04 | 90.000 | 1660.167 | 2.508 | .00599 |
| 35. | 1671.637 | 2.772 | .25E-05 | 0.00 | .34E-06 | 0.000 | .41E-05 | 90.000 | .816E+04 | 90.000 | 1661.390 | 2.324 | .00613 |
| 36. | 1672.991 | 2.537 | .25E-05 | 0.00 | .31E-06 | 0.000 | .42E-05 | 90.000 | .825E+04 | 90.000 | 1662.518 | 2.128 | .00626 |
| 37. | 1674.223 | 2.289 | .25E-05 | 0.00 | .28E-06 | 0.000 | .42E-05 | 90.000 | .833E+04 | 90.000 | 1663.545 | 1.921 | .00638 |
| 38. | 1675.325 | 2.029 | .25E-05 | 0.00 | .25E-06 | 0.000 | .42E-05 | 90.000 | .840E+04 | 90.000 | 1664.464 | 1.703 | .00648 |
| 39. | 1676.293 | 1.759 | .25E-05 | 0.00 | .21E-06 | 0.000 | .42E-05 | 90.000 | .846E+04 | 90.000 | 1665.271 | 1.477 | .00658 |
| 40. | 1677.121 | 1.480 | .25E-05 | 0.00 | .18E-06 | 0.000 | .42E-05 | 90.000 | .851E+04 | 90.000 | 1665.961 | 1.242 | .00665 |
| 41. | 1677.804 | 1.193 | .25E-05 | 0.00 | .14E-06 | 0.000 | .42E-05 | 90.000 | .855E+04 | 90.000 | 1666.531 | 1.002 | .00672 |
| 42. | 1678.339 | .900 | .25E-05 | 0.00 | .11E-06 | 0.000 | .42E-05 | 90.000 | .859E+04 | 90.000 | 1666.977 | .756 | .00677 |
| 43. | 1678.724 | .603 | .25E-05 | 0.00 | .71E-07 | 0.000 | .42E-05 | 90.000 | .861E+04 | 90.000 | 1667.298 | .506 | .00681 |
| 44. | 1678.955 | .302 | .25E-05 | 0.00 | .36E-07 | 0.000 | .42E-05 | 90.000 | .863E+04 | 90.000 | 1667.491 | .254 | .00683 |
| 45. | 1679.033 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .42E-05 | 90.000 | .863E+04 | 90.000 | 1667.555 | 0.000 | .00684 |
| 46. | 1678.955 | -.302 | .25E-05 | 0.00 | .36E-07 | 180.000 | .42E-05 | 90.000 | .863E+04 | 90.000 | 1667.491 | -.254 | .00683 |
| 47. | 1678.724 | -.603 | .25E-05 | 0.00 | .71E-07 | 180.000 | .42E-05 | 90.000 | .861E+04 | 90.000 | 1667.298 | -.506 | .00681 |
| 48. | 1678.339 | -.900 | .25E-05 | 0.00 | .11E-06 | 180.000 | .42E-05 | 90.000 | .859E+04 | 90.000 | 1666.977 | -.756 | .00677 |
| 49. | 1677.804 | -1.193 | .25E-05 | 0.00 | .14E-06 | 180.000 | .42E-05 | 90.000 | .855E+04 | 90.000 | 1666.531 | -1.002 | .00672 |

| | √WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 1677.121 | -1.480 | .25E-05 | 0.00 | .18E-06 | 180.000 | .42E-05 | 90.000 | .851E+04 | 90.000 | 1665.961 | -1.242 | .00665 |
| 51. | 1676.293 | -1.759 | .25E-05 | 0.00 | .21E-06 | 180.000 | .42E-05 | 90.000 | .846E+04 | 90.000 | 1665.271 | -1.477 | .00658 |
| 52. | 1675.325 | -2.029 | .25E-05 | 0.00 | .25E-06 | 180.000 | .42E-05 | 90.000 | .840E+04 | 90.000 | 1664.464 | -1.703 | .00648 |
| 53. | 1674.223 | -2.289 | .25E-05 | 0.00 | .28E-06 | 180.000 | .42E-05 | 90.000 | .833E+04 | 90.000 | 1663.545 | -1.921 | .00638 |
| 54. | 1672.991 | -2.537 | .25E-05 | 0.00 | .31E-06 | 180.000 | .42E-05 | 90.000 | .825E+04 | 90.000 | 1662.518 | -2.128 | .00626 |
| 55. | 1671.637 | -2.772 | .25E-05 | 0.00 | .34E-06 | 180.000 | .41E-05 | 90.000 | .816E+04 | 90.000 | 1661.390 | -2.324 | .00613 |
| 56. | 1670.168 | -2.992 | .25E-05 | 0.00 | .37E-06 | 180.000 | .41E-05 | 90.000 | .806E+04 | 90.000 | 1660.167 | -2.508 | .00599 |
| 57. | 1668.593 | -3.197 | .25E-05 | 0.00 | .40E-06 | 180.000 | .41E-05 | 90.000 | .795E+04 | 90.000 | 1658.855 | -2.678 | .00584 |
| 58. | 1666.918 | -3.385 | .25E-05 | 0.00 | .43E-06 | 180.000 | .41E-05 | 90.000 | .784E+04 | 90.000 | 1657.461 | -2.833 | .00567 |
| 59. | 1665.154 | -3.555 | .24E-05 | 0.00 | .46E-06 | 180.000 | .41E-05 | 90.000 | .771E+04 | 90.000 | 1655.995 | -2.973 | .00550 |
| 60. | 1663.311 | -3.706 | .24E-05 | 0.00 | .48E-06 | 180.000 | .41E-05 | 90.000 | .758E+04 | 90.000 | 1654.462 | -3.096 | .00532 |
| 61. | 1661.397 | -3.837 | .24E-05 | 0.00 | .51E-06 | 180.000 | .41E-05 | 90.000 | .744E+04 | 90.000 | 1652.874 | -3.202 | .00513 |
| 62. | 1659.425 | -3.947 | .24E-05 | 0.00 | .53E-06 | 180.000 | .41E-05 | 90.000 | .729E+04 | 90.000 | 1651.238 | -3.290 | .00493 |
| 63. | 1657.404 | -4.036 | .24E-05 | 0.00 | .55E-06 | 180.000 | .41E-05 | 90.000 | .713E+04 | 90.000 | 1649.564 | -3.359 | .00473 |
| 64. | 1655.347 | -4.102 | .24E-05 | 0.00 | .57E-06 | 180.000 | .41E-05 | 90.000 | .696E+04 | 90.000 | 1647.862 | -3.408 | .00452 |
| 65. | 1653.264 | -4.146 | .23E-05 | 0.00 | .59E-06 | 180.000 | .41E-05 | 90.000 | .679E+04 | 90.000 | 1646.142 | -3.437 | .00431 |
| 66. | 1651.167 | -4.167 | .23E-05 | 0.00 | .60E-06 | 180.000 | .41E-05 | 90.000 | .661E+04 | 90.000 | 1644.414 | -3.446 | .00409 |
| 67. | 1649.069 | -4.164 | .23E-05 | 0.00 | .62E-06 | 180.000 | .41E-05 | 90.000 | .642E+04 | 90.000 | 1642.688 | -3.435 | .00387 |
| 68. | 1646.980 | -4.138 | .23E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .622E+04 | 90.000 | 1640.976 | -3.402 | .00365 |
| 69. | 1644.913 | -4.089 | .23E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .601E+04 | 90.000 | 1639.287 | -3.348 | .00342 |
| 70. | 1642.879 | -4.016 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .580E+04 | 90.000 | 1637.631 | -3.274 | .00319 |
| 71. | 1640.891 | -3.920 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .558E+04 | 90.000 | 1636.020 | -3.179 | .00297 |
| 72. | 1638.958 | -3.802 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .535E+04 | 90.000 | 1634.463 | -3.064 | .00274 |
| 73. | 1637.092 | -3.662 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .511E+04 | 90.000 | 1632.969 | -2.930 | .00252 |
| 74. | 1635.304 | -3.501 | .21E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .487E+04 | 90.000 | 1631.548 | -2.778 | .00230 |
| 75. | 1633.603 | -3.321 | .21E-05 | 0.00 | .62E-06 | 180.000 | .40E-05 | 90.000 | .462E+04 | 90.000 | 1630.208 | -2.609 | .00208 |
| 76. | 1631.998 | -3.123 | .21E-05 | 0.00 | .61E-06 | 180.000 | .39E-05 | 90.000 | .436E+04 | 90.000 | 1628.958 | -2.424 | .00186 |
| 77. | 1630.497 | -2.908 | .21E-05 | 0.00 | .59E-06 | 180.000 | .39E-05 | 90.000 | .409E+04 | 90.000 | 1627.803 | -2.226 | .00165 |
| 78. | 1629.109 | -2.678 | .21E-05 | 0.00 | .56E-06 | 180.000 | .39E-05 | 90.000 | .381E+04 | 90.000 | 1626.750 | -2.017 | .00145 |
| 79. | 1627.839 | -2.437 | .20E-05 | 0.00 | .53E-06 | 180.000 | .39E-05 | 90.000 | .352E+04 | 90.000 | 1625.804 | -1.800 | .00125 |
| 80. | 1626.693 | -2.185 | .20E-05 | 0.00 | .50E-06 | 180.000 | .39E-05 | 90.000 | .322E+04 | 90.000 | 1624.968 | -1.577 | .00106 |
| 81. | 1625.674 | -1.927 | .20E-05 | 0.00 | .46E-06 | 180.000 | .39E-05 | 90.000 | .292E+04 | 90.000 | 1624.243 | -1.352 | .00088 |
| 82. | 1624.784 | -1.665 | .20E-05 | 0.00 | .42E-06 | 180.000 | .39E-05 | 90.000 | .261E+04 | 90.000 | 1623.629 | -1.131 | .00071 |
| 83. | 1624.025 | -1.405 | .20E-05 | 0.00 | .38E-06 | 180.000 | .39E-05 | 90.000 | .229E+04 | 90.000 | 1623.124 | -.917 | .00055 |
| 84. | 1623.393 | -1.150 | .20E-05 | 0.00 | .32E-06 | 180.000 | .39E-05 | 90.000 | .196E+04 | 90.000 | 1622.721 | -.716 | .00041 |
| 85. | 1622.885 | -.907 | .20E-05 | 0.00 | .27E-06 | 180.000 | .39E-05 | 90.000 | .163E+04 | 90.000 | 1622.412 | -.534 | .00029 |
| 86. | 1622.493 | -.681 | .20E-05 | 0.00 | .22E-06 | 180.000 | .39E-05 | 90.000 | .130E+04 | 90.000 | 1622.188 | -.377 | .00019 |
| 87. | 1622.208 | -.478 | .19E-05 | 0.00 | .16E-06 | 180.000 | .39E-05 | 90.000 | .972E+03 | 90.000 | 1622.035 | -.246 | .00011 |
| 88. | 1622.017 | -.299 | .19E-05 | 0.00 | .11E-06 | 180.000 | .39E-05 | 90.000 | .646E+03 | 90.000 | 1621.940 | -.144 | .00005 |
| 89. | 1621.908 | -.143 | .19E-05 | 0.00 | .54E-07 | 180.000 | .39E-05 | 90.000 | .322E+03 | 90.000 | 1621.889 | -.065 | .00001 |
| 90. | 1621.873 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 | 0. | 0.000 | 1621.873 | 0.000 | 0.00000 |
| 91. | 1621.908 | .143 | .19E-05 | 0.00 | .54E-07 | 0.000 | .39E-05 | 90.000 | .322E+03 | -90.000 | 1621.889 | .065 | .00001 |
| 92. | 1622.017 | .299 | .19E-05 | 0.00 | .11E-06 | 0.000 | .39E-05 | 90.000 | .646E+03 | -90.000 | 1621.940 | .144 | .00005 |
| 93. | 1622.208 | .478 | .19E-05 | 0.00 | .16E-06 | 0.000 | .39E-05 | 90.000 | .972E+03 | -90.000 | 1622.035 | .246 | .00011 |
| 94. | 1622.493 | .681 | .20E-05 | 0.00 | .22E-06 | 0.000 | .39E-05 | 90.000 | .130E+04 | -90.000 | 1622.188 | .377 | .00019 |
| 95. | 1622.885 | .907 | .20E-05 | 0.00 | .27E-06 | 0.000 | .39E-05 | 90.000 | .163E+04 | -90.000 | 1622.412 | .534 | .00029 |
| 96. | 1623.393 | 1.150 | .20E-05 | 0.00 | .32E-06 | 0.000 | .39E-05 | 90.000 | .196E+04 | -90.000 | 1622.721 | .716 | .00041 |
| 97. | 1624.025 | 1.405 | .20E-05 | 0.00 | .38E-06 | 0.000 | .39E-05 | 90.000 | .229E+04 | -90.000 | 1623.124 | .917 | .00055 |
| 98. | 1624.784 | 1.665 | .20E-05 | 0.00 | .42E-06 | 0.000 | .39E-05 | 90.000 | .261E+04 | -90.000 | 1623.629 | 1.131 | .00071 |
| 99. | 1625.674 | 1.927 | .20E-05 | 0.00 | .46E-06 | 0.000 | .39E-05 | 90.000 | .292E+04 | -90.000 | 1624.243 | 1.352 | .00088 |

Z-CUT BISMUTH GERMANIUM OXIDE (SLOBODNIK AND SETHARES)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 1626.693 | 2.185 | .20E-05 | 0.00 | .50E-06 | 0.000 | .39E-05 | 90.000 | .322E+04 | -90.000 | 1624.968 | 1.577 | .00106 |
| 101. | 1627.839 | 2.437 | .20E-05 | 0.00 | .53E-06 | 0.000 | .39E-05 | 90.000 | .352E+04 | -90.000 | 1625.804 | 1.800 | .00125 |
| 102. | 1629.109 | 2.678 | .21E-05 | 0.00 | .56E-06 | 0.000 | .39E-05 | 90.000 | .381E+04 | -90.000 | 1626.750 | 2.017 | .00145 |
| 103. | 1630.497 | 2.908 | .21E-05 | 0.00 | .59E-06 | 0.000 | .39E-05 | 90.000 | .409E+04 | -90.000 | 1627.803 | 2.226 | .00165 |
| 104. | 1631.998 | 3.123 | .21E-05 | 0.00 | .61E-06 | 0.000 | .39E-05 | 90.000 | .436E+04 | -90.000 | 1628.958 | 2.424 | .00186 |
| 105. | 1633.603 | 3.321 | .21E-05 | 0.00 | .62E-06 | 0.000 | .40E-05 | 90.000 | .462E+04 | -90.000 | 1630.208 | 2.609 | .00208 |
| 106. | 1635.304 | 3.501 | .21E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .487E+04 | -90.000 | 1631.548 | 2.778 | .00230 |
| 107. | 1637.092 | 3.662 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .511E+04 | -90.000 | 1632.969 | 2.930 | .00252 |
| 108. | 1638.958 | 3.802 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .535E+04 | -90.000 | 1634.463 | 3.064 | .00274 |
| 109. | 1640.891 | 3.920 | .22E-05 | 0.00 | .65E-06 | 0.000 | .40E-05 | 90.000 | .558E+04 | -90.000 | 1636.020 | 3.179 | .00297 |
| 110. | 1642.879 | 4.016 | .22E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .580E+04 | -90.000 | 1637.631 | 3.274 | .00319 |
| 111. | 1644.913 | 4.089 | .23E-05 | 0.00 | .64E-06 | 0.000 | .40E-05 | 90.000 | .601E+04 | -90.000 | 1639.287 | 3.348 | .00342 |
| 112. | 1646.980 | 4.138 | .23E-05 | 0.00 | .63E-06 | 0.000 | .40E-05 | 90.000 | .622E+04 | -90.000 | 1640.976 | 3.402 | .00365 |
| 113. | 1649.069 | 4.164 | .23E-05 | 0.00 | .62E-06 | 0.000 | .41E-05 | 90.000 | .642E+04 | -90.000 | 1642.688 | 3.435 | .00387 |
| 114. | 1651.167 | 4.167 | .23E-05 | 0.00 | .60E-06 | 0.000 | .41E-05 | 90.000 | .661E+04 | -90.000 | 1644.414 | 3.446 | .00409 |
| 115. | 1653.264 | 4.146 | .23E-05 | 0.00 | .59E-06 | 0.000 | .41E-05 | 90.000 | .679E+04 | -90.000 | 1646.142 | 3.437 | .00431 |
| 116. | 1655.347 | 4.102 | .24E-05 | 0.00 | .57E-06 | 0.000 | .41E-05 | 90.000 | .696E+04 | -90.000 | 1647.862 | 3.408 | .00452 |
| 117. | 1657.404 | 4.036 | .24E-05 | 0.00 | .55E-06 | 0.000 | .41E-05 | 90.000 | .713E+04 | -90.000 | 1649.564 | 3.359 | .00473 |
| 118. | 1659.425 | 3.947 | .24E-05 | 0.00 | .53E-06 | 0.000 | .41E-05 | 90.000 | .729E+04 | -90.000 | 1651.238 | 3.290 | .00493 |
| 119. | 1661.397 | 3.837 | .24E-05 | 0.00 | .51E-06 | 0.000 | .41E-05 | 90.000 | .744E+04 | -90.000 | 1652.874 | 3.202 | .00513 |
| 120. | 1663.311 | 3.706 | .24E-05 | 0.00 | .48E-06 | 0.000 | .41E-05 | 90.000 | .758E+04 | -90.000 | 1654.462 | 3.096 | .00532 |
| 121. | 1665.154 | 3.555 | .24E-05 | 0.00 | .46E-06 | 0.000 | .41E-05 | 90.000 | .771E+04 | -90.000 | 1655.995 | 2.973 | .00550 |
| 122. | 1666.918 | 3.385 | .25E-05 | 0.00 | .43E-06 | 0.000 | .41E-05 | 90.000 | .784E+04 | -90.000 | 1657.461 | 2.833 | .00567 |
| 123. | 1668.593 | 3.197 | .25E-05 | 0.00 | .40E-06 | 0.000 | .41E-05 | 90.000 | .795E+04 | -90.000 | 1658.855 | 2.678 | .00584 |
| 124. | 1670.168 | 2.992 | .25E-05 | 0.00 | .37E-06 | 0.000 | .41E-05 | 90.000 | .806E+04 | -90.000 | 1660.167 | 2.508 | .00599 |
| 125. | 1671.637 | 2.772 | .25E-05 | 0.00 | .34E-06 | 0.000 | .41E-05 | 90.000 | .816E+04 | -90.000 | 1661.390 | 2.324 | .00613 |
| 126. | 1672.991 | 2.537 | .25E-05 | 0.00 | .31E-06 | 0.000 | .42E-05 | 90.000 | .825E+04 | -90.000 | 1662.518 | 2.128 | .00626 |
| 127. | 1674.223 | 2.289 | .25E-05 | 0.00 | .28E-06 | 0.000 | .42E-05 | 90.000 | .833E+04 | -90.000 | 1663.545 | 1.921 | .00638 |
| 128. | 1675.325 | 2.029 | .25E-05 | 0.00 | .25E-06 | 0.000 | .42E-05 | 90.000 | .840E+04 | -90.000 | 1664.464 | 1.703 | .00648 |
| 129. | 1676.293 | 1.759 | .25E-05 | 0.00 | .21E-06 | 0.000 | .42E-05 | 90.000 | .846E+04 | -90.000 | 1665.271 | 1.477 | .00658 |
| 130. | 1677.121 | 1.480 | .25E-05 | 0.00 | .18E-06 | 0.000 | .42E-05 | 90.000 | .851E+04 | -90.000 | 1665.961 | 1.242 | .00665 |
| 131. | 1677.804 | 1.193 | .25E-05 | 0.00 | .14E-06 | 0.000 | .42E-05 | 90.000 | .855E+04 | -90.000 | 1666.531 | 1.002 | .00672 |
| 132. | 1678.339 | .900 | .25E-05 | 0.00 | .11E-06 | 0.000 | .42E-05 | 90.000 | .859E+04 | -90.000 | 1666.977 | .756 | .00677 |
| 133. | 1678.724 | .603 | .25E-05 | 0.00 | .71E-07 | 0.000 | .42E-05 | 90.000 | .861E+04 | -90.000 | 1667.298 | .506 | .00681 |
| 134. | 1678.955 | .302 | .25E-05 | 0.00 | .36E-07 | 0.000 | .42E-05 | 90.000 | .863E+04 | -90.000 | 1667.491 | .254 | .00683 |
| 135. | 1679.033 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .42E-05 | 90.000 | .863E+04 | -90.000 | 1667.555 | 0.000 | .00684 |
| 136. | 1678.955 | -.302 | .25E-05 | 0.00 | .36E-07 | 180.000 | .42E-05 | 90.000 | .863E+04 | -90.000 | 1667.491 | -.254 | .00683 |
| 137. | 1678.724 | -.603 | .25E-05 | 0.00 | .71E-07 | 180.000 | .42E-05 | 90.000 | .861E+04 | -90.000 | 1667.298 | -.506 | .00681 |
| 138. | 1678.339 | -.900 | .25E-05 | 0.00 | .11E-06 | 180.000 | .42E-05 | 90.000 | .859E+04 | -90.000 | 1666.977 | -.756 | .00677 |
| 139. | 1677.804 | -1.193 | .25E-05 | 0.00 | .14E-06 | 180.000 | .42E-05 | 90.000 | .855E+04 | -90.000 | 1666.531 | -1.002 | .00672 |
| 140. | 1677.121 | -1.480 | .25E-05 | 0.00 | .18E-06 | 180.000 | .42E-05 | 90.000 | .851E+04 | -90.000 | 1665.961 | -1.242 | .00665 |
| 141. | 1676.293 | -1.759 | .25E-05 | 0.00 | .21E-06 | 180.000 | .42E-05 | 90.000 | .846E+04 | -90.000 | 1665.271 | -1.477 | .00658 |
| 142. | 1675.325 | -2.029 | .25E-05 | 0.00 | .25E-06 | 180.000 | .42E-05 | 90.000 | .840E+04 | -90.000 | 1664.464 | -1.703 | .00648 |
| 143. | 1674.223 | -2.289 | .25E-05 | 0.00 | .28E-06 | 180.000 | .42E-05 | 90.000 | .833E+04 | -90.000 | 1663.545 | -1.921 | .00638 |
| 144. | 1672.991 | -2.537 | .25E-05 | 0.00 | .31E-06 | 180.000 | .42E-05 | 90.000 | .825E+04 | -90.000 | 1662.518 | -2.128 | .00626 |
| 145. | 1671.637 | -2.772 | .25E-05 | 0.00 | .34E-06 | 180.000 | .41E-05 | 90.000 | .816E+04 | -90.000 | 1661.390 | -2.324 | .00613 |
| 146. | 1670.168 | -2.992 | .25E-05 | 0.00 | .37E-06 | 180.000 | .41E-05 | 90.000 | .806E+04 | -90.000 | 1660.167 | -2.508 | .00599 |
| 147. | 1668.593 | -3.197 | .25E-05 | 0.00 | .40E-06 | 180.000 | .41E-05 | 90.000 | .795E+04 | -90.000 | 1658.855 | -2.678 | .00584 |
| 148. | 1666.918 | -3.385 | .25E-05 | 0.00 | .43E-06 | 180.000 | .41E-05 | 90.000 | .784E+04 | -90.000 | 1657.461 | -2.833 | .00567 |
| 149. | 1665.154 | -3.555 | .24E-05 | 0.00 | .46E-06 | 180.000 | .41E-05 | 90.000 | .771E+04 | -90.000 | 1655.995 | -2.973 | .00550 |

Z-CUT BISMUTH GERMANIUM OXIDE (SLOBODNIK AND SETHARES)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 1663.311 | -3.706 | .24E-05 | 0.00 | .48E-06 | 180.000 | .41E-05 | 90.000 | .758E+04 | -90.000 | 1654.462 | -3.096 | .00532 |
| 151. | 1661.397 | -3.837 | .24E-05 | 0.00 | .51E-06 | 180.000 | .41E-05 | 90.000 | .744E+04 | -90.000 | 1652.874 | -3.202 | .00513 |
| 152. | 1659.425 | -3.947 | .24E-05 | 0.00 | .53E-06 | 180.000 | .41E-05 | 90.000 | .729E+04 | -90.000 | 1651.238 | -3.290 | .00493 |
| 153. | 1657.404 | -4.036 | .24E-05 | 0.00 | .55E-06 | 180.000 | .41E-05 | 90.000 | .713E+04 | -90.000 | 1649.564 | -3.359 | .00473 |
| 154. | 1655.347 | -4.102 | .24E-05 | 0.00 | .57E-06 | 180.000 | .41E-05 | 90.000 | .696E+04 | -90.000 | 1647.862 | -3.408 | .00452 |
| 155. | 1653.264 | -4.146 | .23E-05 | 0.00 | .59E-06 | 180.000 | .41E-05 | 90.000 | .679E+04 | -90.000 | 1646.142 | -3.437 | .00431 |
| 156. | 1651.167 | -4.167 | .23E-05 | 0.00 | .60E-06 | 180.000 | .41E-05 | 90.000 | .661E+04 | -90.000 | 1644.414 | -3.446 | .00409 |
| 157. | 1649.069 | -4.164 | .23E-05 | 0.00 | .62E-06 | 180.000 | .41E-05 | 90.000 | .642E+04 | -90.000 | 1642.688 | -3.435 | .00387 |
| 158. | 1646.980 | -4.138 | .23E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .622E+04 | -90.000 | 1640.976 | -3.402 | .00365 |
| 159. | 1644.913 | -4.089 | .23E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .601E+04 | -90.000 | 1639.287 | -3.348 | .00342 |
| 160. | 1642.879 | -4.016 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .580E+04 | -90.000 | 1637.631 | -3.274 | .00319 |
| 161. | 1640.891 | -3.920 | .22E-05 | 0.00 | .65E-06 | 180.000 | .40E-05 | 90.000 | .558E+04 | -90.000 | 1636.020 | -3.179 | .00297 |
| 162. | 1638.958 | -3.802 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .535E+04 | -90.000 | 1634.463 | -3.064 | .00274 |
| 163. | 1637.092 | -3.662 | .22E-05 | 0.00 | .64E-06 | 180.000 | .40E-05 | 90.000 | .511E+04 | -90.000 | 1632.969 | -2.930 | .00252 |
| 164. | 1635.304 | -3.501 | .21E-05 | 0.00 | .63E-06 | 180.000 | .40E-05 | 90.000 | .487E+04 | -90.000 | 1631.548 | -2.778 | .00230 |
| 165. | 1633.603 | -3.321 | .21E-05 | 0.00 | .62E-06 | 180.000 | .40E-05 | 90.000 | .462E+04 | -90.000 | 1630.208 | -2.609 | .00208 |
| 166. | 1631.998 | -3.123 | .21E-05 | 0.00 | .61E-06 | 180.000 | .39E-05 | 90.000 | .436E+04 | -90.000 | 1628.958 | -2.424 | .00186 |
| 167. | 1630.497 | -2.908 | .21E-05 | 0.00 | .59E-06 | 180.000 | .39E-05 | 90.000 | .409E+04 | -90.000 | 1627.803 | -2.226 | .00165 |
| 168. | 1629.109 | -2.676 | .21E-05 | 0.00 | .56E-06 | 180.000 | .39E-05 | 90.000 | .381E+04 | -90.000 | 1626.750 | -2.017 | .00145 |
| 169. | 1627.839 | -2.427 | .20E-05 | 0.00 | .53E-06 | 180.000 | .39E-05 | 90.000 | .352E+04 | -90.000 | 1625.804 | -1.800 | .00125 |
| 170. | 1626.693 | -2.185 | .20E-05 | 0.00 | .50E-06 | 180.000 | .39E-05 | 90.000 | .322E+04 | -90.000 | 1624.968 | -1.577 | .00106 |
| 171. | 1625.674 | -1.927 | .20E-05 | 0.00 | .46E-06 | 180.000 | .39E-05 | 90.000 | .292E+04 | -90.000 | 1624.243 | -1.352 | .00088 |
| 172. | 1624.784 | -1.665 | .20E-05 | 0.00 | .42E-06 | 180.000 | .39E-05 | 90.000 | .261E+04 | -90.000 | 1623.629 | -1.131 | .00071 |
| 173. | 1624.025 | -1.405 | .20E-05 | 0.00 | .38E-06 | 180.000 | .39E-05 | 90.000 | .229E+04 | -90.000 | 1623.124 | -.917 | .00055 |
| 174. | 1623.393 | -1.150 | .20E-05 | 0.00 | .32E-06 | 180.000 | .39E-05 | 90.000 | .196E+04 | -90.000 | 1622.721 | -.716 | .00041 |
| 175. | 1622.885 | -.907 | .20E-05 | 0.00 | .27E-06 | 180.000 | .39E-05 | 90.000 | .163E+04 | -90.000 | 1622.412 | -.534 | .00029 |
| 176. | 1622.493 | -.681 | .20E-05 | 0.00 | .22E-06 | 180.000 | .39E-05 | 90.000 | .130E+04 | -90.000 | 1622.188 | -.377 | .00019 |
| 177. | 1622.208 | -.478 | .19E-05 | 0.00 | .16E-06 | 180.000 | .39E-05 | 90.000 | .972E+03 | -90.000 | 1622.035 | -.246 | .00011 |
| 178. | 1622.017 | -.299 | .19E-05 | 0.00 | .11E-06 | 180.000 | .39E-05 | 90.000 | .646E+03 | -90.000 | 1621.940 | -.144 | .00005 |
| 179. | 1621.908 | -.143 | .19E-05 | 0.00 | .54E-07 | 180.000 | .39E-05 | 90.000 | .322E+03 | -90.000 | 1621.889 | -.065 | .00001 |
| 180. | 1621.873 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .39E-05 | 90.000 | 0. | 0.000 | 1621.873 | 0.000 | 0.00000 |

Y-CUT LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3744.393 | 0.000 | .22E-05 | 0.00 | .71E-06 | -90.000 | .32E-05 | 90.000 | .453E+04 | 90.000 | 3716.107 | 0.000 | .00755 |
| 1. | 3744.253 | -.246 | .22E-05 | 0.00 | .71E-06 | -90.186 | .32E-05 | 89.828 | .453E+04 | 91.289 | 3715.961 | -.258 | .00756 |
| 2. | 3743.833 | -.491 | .22E-05 | 0.00 | .71E-06 | -90.375 | .32E-05 | 89.656 | .454E+04 | 92.580 | 3715.523 | -.516 | .00756 |
| 3. | 3743.134 | -.735 | .22E-05 | 0.00 | .71E-06 | -90.569 | .32E-05 | 89.485 | .456E+04 | 93.874 | 3714.792 | -.775 | .00757 |
| 4. | 3742.158 | -.978 | .22E-05 | 0.00 | .71E-06 | -90.774 | .32E-05 | 89.315 | .457E+04 | 95.173 | 3713.769 | -1.033 | .00759 |
| 5. | 3740.906 | -1.219 | .22E-05 | 0.00 | .71E-06 | -90.990 | .32E-05 | 89.146 | .460E+04 | 96.478 | 3712.454 | -1.292 | .00761 |
| 6. | 3739.381 | -1.457 | .22E-05 | 0.00 | .71E-06 | -91.222 | .32E-05 | 88.980 | .463E+04 | 97.789 | 3710.846 | -1.551 | .00763 |
| 7. | 3737.587 | -1.693 | .22E-05 | 0.00 | .71E-06 | -91.473 | .32E-05 | 88.816 | .467E+04 | 99.106 | 3708.947 | -1.810 | .00766 |
| 8. | 3735.527 | -1.925 | .22E-05 | 0.00 | .71E-06 | -91.745 | .32E-05 | 88.655 | .471E+04 | 100.430 | 3706.755 | -2.069 | .00770 |
| 9. | 3733.205 | -2.154 | .22E-05 | 0.00 | .72E-06 | -92.043 | .32E-05 | 88.497 | .476E+04 | 101.758 | 3704.271 | -2.328 | .00775 |
| 10. | 3730.626 | -2.380 | .22E-05 | 0.00 | .72E-06 | -92.369 | .32E-05 | 88.342 | .482E+04 | 103.089 | 3701.497 | -2.587 | .00781 |
| 11. | 3727.795 | -2.601 | .22E-05 | 0.00 | .72E-06 | -92.727 | .32E-05 | 88.192 | .486E+04 | 104.421 | 3698.434 | -2.845 | .00788 |
| 12. | 3724.717 | -2.818 | .22E-05 | 0.00 | .72E-06 | -93.120 | .32E-05 | 88.046 | .496E+04 | 105.750 | 3695.083 | -3.101 | .00796 |
| 13. | 3721.397 | -3.030 | .22E-05 | 0.00 | .73E-06 | -93.552 | .32E-05 | 87.905 | .504E+04 | 107.073 | 3691.447 | -3.356 | .00805 |
| 14. | 3717.842 | -3.238 | .22E-05 | 0.00 | .73E-06 | -94.026 | .32E-05 | 87.770 | .513E+04 | 108.385 | 3687.529 | -3.608 | .00815 |
| 15. | 3714.057 | -3.441 | .22E-05 | 0.00 | .73E-06 | -94.545 | .31E-05 | 87.640 | .523E+04 | 109.683 | 3683.331 | -3.858 | .00827 |
| 16. | 3710.048 | -3.640 | .22E-05 | 0.00 | .73E-06 | -95.114 | .31E-05 | 87.516 | .533E+04 | 110.961 | 3678.860 | -4.104 | .00841 |
| 17. | 3705.820 | -3.834 | .22E-05 | 0.00 | .74E-06 | -95.736 | .31E-05 | 87.399 | .545E+04 | 112.216 | 3674.118 | -4.346 | .00855 |
| 18. | 3701.381 | -4.023 | .22E-05 | 0.00 | .74E-06 | -96.413 | .31E-05 | 87.289 | .558E+04 | 113.442 | 3669.114 | -4.584 | .00872 |
| 19. | 3696.735 | -4.208 | .22E-05 | 0.00 | .74E-06 | -97.150 | .31E-05 | 87.186 | .571E+04 | 114.635 | 3663.853 | -4.815 | .00889 |
| 20. | 3691.887 | -4.389 | .22E-05 | 0.00 | .75E-06 | -97.948 | .31E-05 | 87.091 | .586E+04 | 115.793 | 3658.344 | -5.040 | .00909 |
| 21. | 3686.844 | -4.566 | .22E-05 | 0.00 | .75E-06 | -98.812 | .31E-05 | 87.003 | .601E+04 | 116.912 | 3652.594 | -5.258 | .00929 |
| 22. | 3681.611 | -4.740 | .23E-05 | 0.00 | .75E-06 | -99.743 | .31E-05 | 86.923 | .617E+04 | 117.990 | 3646.614 | -5.467 | .00951 |
| 23. | 3676.191 | -4.909 | .23E-05 | 0.00 | .75E-06 | -100.742 | .31E-05 | 86.851 | .634E+04 | 119.026 | 3640.414 | -5.668 | .00973 |
| 24. | 3670.591 | -5.075 | .23E-05 | 0.00 | .75E-06 | -101.812 | .31E-05 | 86.788 | .651E+04 | 120.018 | 3634.005 | -5.859 | .00997 |
| 25. | 3664.814 | -5.237 | .23E-05 | 0.00 | .75E-06 | -102.953 | .31E-05 | 86.732 | .669E+04 | 120.968 | 3627.400 | -6.040 | .01021 |
| 26. | 3658.866 | -5.396 | .23E-05 | 0.00 | .75E-06 | -104.163 | .31E-05 | 86.684 | .688E+04 | 121.877 | 3620.612 | -6.210 | .01046 |
| 27. | 3652.752 | -5.551 | .23E-05 | 0.00 | .75E-06 | -105.442 | .31E-05 | 86.644 | .706E+04 | 122.747 | 3613.654 | -6.367 | .01070 |
| 28. | 3646.477 | -5.701 | .23E-05 | 0.00 | .75E-06 | -106.786 | .31E-05 | 86.611 | .725E+04 | 123.582 | 3606.541 | -6.512 | .01095 |
| 29. | 3640.047 | -5.846 | .23E-05 | 0.00 | .76E-06 | -108.192 | .31E-05 | 86.585 | .745E+04 | 124.384 | 3599.288 | -6.644 | .01120 |
| 30. | 3633.470 | -5.986 | .23E-05 | 0.00 | .76E-06 | -109.653 | .31E-05 | 86.566 | .764E+04 | 125.158 | 3591.910 | -6.763 | .01144 |
| 31. | 3626.752 | -6.118 | .23E-05 | 0.00 | .76E-06 | -111.163 | .31E-05 | 86.553 | .782E+04 | 125.910 | 3584.425 | -6.867 | .01167 |
| 32. | 3619.903 | -6.243 | .23E-05 | 0.00 | .76E-06 | -112.713 | .31E-05 | 86.545 | .801E+04 | 126.644 | 3576.848 | -6.956 | .01189 |
| 33. | 3612.933 | -6.358 | .23E-05 | 0.00 | .76E-06 | -114.293 | .31E-05 | 86.542 | .819E+04 | 127.367 | 3569.197 | -7.031 | .01211 |
| 34. | 3605.855 | -6.462 | .23E-05 | 0.00 | .76E-06 | -115.893 | .31E-05 | 86.543 | .836E+04 | 128.083 | 3561.488 | -7.090 | .01230 |
| 35. | 3598.682 | -6.553 | .23E-05 | 0.00 | .76E-06 | -117.499 | .31E-05 | 86.548 | .853E+04 | 128.799 | 3553.739 | -7.134 | .01249 |
| 36. | 3591.431 | -6.630 | .23E-05 | 0.00 | .77E-06 | -119.100 | .31E-05 | 86.556 | .869E+04 | 129.521 | 3545.960 | -7.162 | .01266 |
| 37. | 3584.117 | -6.691 | .23E-05 | 0.00 | .77E-06 | -120.683 | .31E-05 | 86.567 | .885E+04 | 130.254 | 3538.191 | -7.175 | .01281 |
| 38. | 3576.760 | -6.735 | .23E-05 | 0.00 | .77E-06 | -122.236 | .31E-05 | 86.579 | .899E+04 | 131.003 | 3530.426 | -7.172 | .01295 |
| 39. | 3569.381 | -6.759 | .23E-05 | 0.00 | .77E-06 | -123.746 | .31E-05 | 86.593 | .913E+04 | 131.773 | 3522.691 | -7.153 | .01308 |
| 40. | 3562.001 | -6.764 | .23E-05 | 0.00 | .78E-06 | -125.202 | .31E-05 | 86.609 | .925E+04 | 132.569 | 3515.001 | -7.118 | .01319 |
| 41. | 3554.642 | -6.747 | .23E-05 | 0.00 | .78E-06 | -126.595 | .31E-05 | 86.625 | .937E+04 | 133.393 | 3507.375 | -7.067 | .01330 |
| 42. | 3547.329 | -6.709 | .23E-05 | 0.00 | .79E-06 | -127.916 | .31E-05 | 86.642 | .948E+04 | 134.248 | 3499.828 | -7.001 | .01339 |
| 43. | 3540.085 | -6.648 | .23E-05 | 0.00 | .79E-06 | -129.157 | .31E-05 | 86.660 | .959E+04 | 135.137 | 3492.378 | -6.920 | .01348 |
| 44. | 3532.935 | -6.564 | .23E-05 | 0.00 | .80E-06 | -130.315 | .31E-05 | 86.680 | .969E+04 | 136.062 | 3485.039 | -6.823 | .01356 |
| 45. | 3525.903 | -6.457 | .22E-05 | 0.00 | .80E-06 | -131.385 | .31E-05 | 86.700 | .978E+04 | 137.022 | 3477.827 | -6.711 | .01364 |
| 46. | 3519.013 | -6.328 | .22E-05 | 0.00 | .81E-06 | -132.365 | .31E-05 | 86.721 | .987E+04 | 138.017 | 3470.759 | -6.584 | .01371 |
| 47. | 3512.288 | -6.177 | .22E-05 | 0.00 | .81E-06 | -133.253 | .31E-05 | 86.744 | .995E+04 | 139.047 | 3463.848 | -6.443 | .01379 |
| 48. | 3505.751 | -6.004 | .22E-05 | 0.00 | .82E-06 | -134.051 | .30E-05 | 86.768 | .100E+05 | 140.110 | 3457.110 | -6.286 | .01387 |
| 49. | 3499.424 | -5.810 | .22E-05 | 0.00 | .83E-06 | -134.760 | .30E-05 | 86.795 | .101E+05 | 141.203 | 3450.559 | -6.116 | .01396 |

Y-CUT LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3493.327 | -5.597 | .22E-05 | 0.00 | .84E-06 | -135.382 | .30E-05 | 86.824 | .102E+05 | 142.324 | 3444.209 | -5.931 | .01406 |
| 51. | 3487.480 | -5.365 | .22E-05 | 0.00 | .84E-06 | -135.919 | .30E-05 | 86.855 | .103E+05 | 143.469 | 3438.073 | -5.733 | .01417 |
| 52. | 3481.901 | -5.115 | .22E-05 | 0.00 | .85E-06 | -136.376 | .30E-05 | 86.890 | .103E+05 | 144.635 | 3432.166 | -5.521 | .01428 |
| 53. | 3476.607 | -4.849 | .21E-05 | 0.00 | .86E-06 | -136.755 | .30E-05 | 86.927 | .104E+05 | 145.818 | 3426.498 | -5.295 | .01441 |
| 54. | 3471.612 | -4.567 | .21E-05 | 0.00 | .86E-06 | -137.061 | .30E-05 | 86.969 | .105E+05 | 147.014 | 3421.084 | -5.057 | .01455 |
| 55. | 3466.931 | -4.272 | .21E-05 | 0.00 | .87E-06 | -137.298 | .29E-05 | 87.014 | .106E+05 | 148.219 | 3415.935 | -4.806 | .01471 |
| 56. | 3462.577 | -3.963 | .21E-05 | 0.00 | .88E-06 | -137.469 | .29E-05 | 87.063 | .107E+05 | 149.429 | 3411.063 | -4.543 | .01488 |
| 57. | 3458.560 | -3.644 | .21E-05 | 0.00 | .88E-06 | -137.577 | .29E-05 | 87.116 | .108E+05 | 150.642 | 3406.476 | -4.268 | .01506 |
| 58. | 3454.892 | -3.314 | .21E-05 | 0.00 | .89E-06 | -137.626 | .29E-05 | 87.174 | .109E+05 | 151.852 | 3402.192 | -3.982 | .01525 |
| 59. | 3451.579 | -2.976 | .21E-05 | 0.00 | .90E-06 | -137.620 | .29E-05 | 87.236 | .110E+05 | 153.058 | 3398.214 | -3.686 | .01546 |
| 60. | 3448.631 | -2.629 | .20E-05 | 0.00 | .90E-06 | -137.559 | .28E-05 | 87.303 | .111E+05 | 154.257 | 3394.553 | -3.380 | .01568 |
| 61. | 3446.053 | -2.277 | .20E-05 | 0.00 | .90E-06 | -137.447 | .28E-05 | 87.375 | .112E+05 | 155.447 | 3391.218 | -3.065 | .01591 |
| 62. | 3443.851 | -1.918 | .20E-05 | 0.00 | .91E-06 | -137.285 | .28E-05 | 87.451 | .113E+05 | 156.625 | 3388.217 | -2.742 | .01615 |
| 63. | 3442.028 | -1.556 | .20E-05 | 0.00 | .91E-06 | -137.074 | .28E-05 | 87.532 | .114E+05 | 157.792 | 3385.556 | -2.411 | .01641 |
| 64. | 3440.587 | -1.191 | .20E-05 | 0.00 | .92E-06 | -136.815 | .27E-05 | 87.618 | .115E+05 | 158.947 | 3383.242 | -2.075 | .01667 |
| 65. | 3439.532 | -.823 | .19E-05 | 0.00 | .92E-06 | -136.507 | .27E-05 | 87.708 | .116E+05 | 160.088 | 3381.279 | -1.733 | .01694 |
| 66. | 3438.863 | -.455 | .19E-05 | 0.00 | .92E-06 | -136.150 | .27E-05 | 87.802 | .117E+05 | 161.216 | 3379.672 | -1.388 | .01721 |
| 67. | 3438.580 | -.086 | .19E-05 | 0.00 | .92E-06 | -135.743 | .27E-05 | 87.901 | .118E+05 | 162.332 | 3378.421 | -1.040 | .01750 |
| 68. | 3438.682 | .281 | .19E-05 | 0.00 | .92E-06 | -135.283 | .26E-05 | 88.003 | .119E+05 | 163.435 | 3377.530 | -.692 | .01778 |
| 69. | 3439.167 | .646 | .19E-05 | 0.00 | .92E-06 | -134.769 | .26E-05 | 88.110 | .120E+05 | 164.528 | 3376.997 | -.345 | .01808 |
| 70. | 3440.034 | 1.007 | .18E-05 | 0.00 | .92E-06 | -134.197 | .26E-05 | 88.220 | .121E+05 | 165.612 | 3376.819 | -.001 | .01838 |
| 71. | 3441.276 | 1.362 | .18E-05 | 0.00 | .91E-06 | -133.563 | .26E-05 | 88.333 | .122E+05 | 166.687 | 3376.994 | .339 | .01868 |
| 72. | 3442.888 | 1.711 | .18E-05 | 0.00 | .91E-06 | -132.862 | .26E-05 | 88.449 | .123E+05 | 167.756 | 3377.514 | .671 | .01899 |
| 73. | 3444.864 | 2.052 | .18E-05 | 0.00 | .90E-06 | -132.088 | .25E-05 | 88.569 | .124E+05 | 168.819 | 3378.371 | .993 | .01930 |
| 74. | 3447.193 | 2.381 | .18E-05 | 0.00 | .89E-06 | -131.235 | .25E-05 | 86.691 | .125E+05 | 169.880 | 3379.554 | 1.303 | .01962 |
| 75. | 3449.863 | 2.697 | .18E-05 | 0.00 | .88E-06 | -130.294 | .25E-05 | 86.815 | .126E+05 | 170.939 | 3381.048 | 1.596 | .01995 |
| 76. | 3452.860 | 2.997 | .17E-05 | 0.00 | .87E-06 | -129.257 | .25E-05 | 88.941 | .127E+05 | 171.998 | 3382.836 | 1.870 | .02028 |
| 77. | 3456.166 | 3.275 | .17E-05 | 0.00 | .85E-06 | -128.113 | .25E-05 | 89.068 | .128E+05 | 173.059 | 3384.896 | 2.120 | .02062 |
| 78. | 3459.756 | 3.529 | .17E-05 | 0.00 | .83E-06 | -126.852 | .25E-05 | 89.196 | .130E+05 | 174.121 | 3387.200 | 2.340 | .02097 |
| 79. | 3463.602 | 3.750 | .17E-05 | 0.00 | .81E-06 | -125.460 | .25E-05 | 89.325 | .131E+05 | 175.187 | 3389.716 | 2.526 | .02133 |
| 80. | 3467.667 | 3.932 | .17E-05 | 0.00 | .79E-06 | -123.926 | .25E-05 | 89.453 | .132E+05 | 176.253 | 3392.406 | 2.670 | .02170 |
| 81. | 3471.905 | 4.065 | .17E-05 | 0.00 | .76E-06 | -122.236 | .25E-05 | 89.581 | .134E+05 | 177.320 | 3395.221 | 2.764 | .02209 |
| 82. | 3476.257 | 4.135 | .17E-05 | 0.00 | .72E-06 | -120.382 | .25E-05 | 89.706 | .136E+05 | 178.383 | 3398.107 | 2.799 | .02248 |
| 83. | 3480.650 | 4.128 | .17E-05 | 0.00 | .68E-06 | -118.359 | .25E-05 | 89.828 | .138E+05 | 179.433 | 3400.996 | 2.764 | .02288 |
| 84. | 3484.990 | 4.022 | .17E-05 | 0.00 | .63E-06 | -116.176 | .25E-05 | 89.946 | .139E+05 | -179.539 | 3403.810 | 2.648 | .02329 |
| 85. | 3489.159 | 3.791 | .17E-05 | 0.00 | .56E-06 | -113.872 | .25E-05 | 90.056 | .141E+05 | -178.552 | 3406.458 | 2.439 | .02370 |
| 86. | 3493.006 | 3.407 | .17E-05 | 0.00 | .49E-06 | -111.519 | .25E-05 | 90.156 | .143E+05 | -177.634 | 3408.840 | 2.130 | .02410 |
| 87. | 3496.351 | 2.837 | .18E-05 | 0.00 | .39E-06 | -109.260 | .26E-05 | 90.242 | .145E+05 | -176.825 | 3410.848 | 1.718 | .02445 |
| 88. | 3498.981 | 2.062 | .18E-05 | 0.00 | .28E-06 | -107.316 | .26E-05 | 90.310 | .147E+05 | -176.177 | 3412.377 | 1.210 | .02475 |
| 89. | 3500.678 | 1.092 | .18E-05 | 0.00 | .14E-06 | -105.970 | .26E-05 | 90.354 | .148E+05 | -175.753 | 3413.337 | .626 | .02495 |
| 90. | 3501.266 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.369 | .148E+05 | -175.604 | 3413.664 | 0.000 | .02502 |
| 91. | 3500.678 | -1.092 | .18E-05 | 0.00 | .14E-06 | 74.030 | .26E-05 | 90.354 | .148E+05 | -175.753 | 3413.337 | -.626 | .02495 |
| 92. | 3498.981 | -2.062 | .18E-05 | 0.00 | .28E-06 | 72.664 | .26E-05 | 90.310 | .147E+05 | -176.177 | 3412.377 | -1.210 | .02475 |
| 93. | 3496.351 | -2.837 | .18E-05 | 0.00 | .39E-06 | 70.740 | .26E-05 | 90.242 | .145E+05 | -176.825 | 3410.848 | -1.718 | .02445 |
| 94. | 3493.006 | -3.407 | .17E-05 | 0.00 | .49E-06 | 68.481 | .25E-05 | 90.156 | .143E+05 | -177.634 | 3408.840 | -2.130 | .02410 |
| 95. | 3489.159 | -3.791 | .17E-05 | 0.00 | .56E-06 | 66.128 | .25E-05 | 90.056 | .141E+05 | -178.552 | 3406.458 | -2.439 | .02370 |
| 96. | 3484.990 | -4.022 | .17E-05 | 0.00 | .63E-06 | 63.822 | .25E-05 | 89.946 | .139E+05 | -179.539 | 3403.810 | -2.648 | .02329 |
| 97. | 3480.650 | -4.128 | .17E-05 | 0.00 | .68E-06 | 61.641 | .25E-05 | 89.828 | .138E+05 | 179.433 | 3400.996 | -2.764 | .02288 |
| 98. | 3476.257 | -4.135 | .17E-05 | 0.00 | .72E-06 | 59.618 | .25E-05 | 89.706 | .136E+05 | 178.383 | 3398.107 | -2.799 | .02248 |
| 99. | 3471.905 | -4.065 | .17E-05 | 0.00 | .76E-06 | 57.764 | .25E-05 | 89.581 | .134E+05 | 177.320 | 3395.221 | -2.764 | .02209 |

Y-CUT LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3467.667 | -3.932 | .17E-05 | 0.00 | .79E-06 | 56.074 | .25E-05 | 89.453 | .132E+05 | 176.253 | 3392.406 | -2.670 | .02170 |
| 101. | 3463.602 | -3.750 | .17E-05 | 0.00 | .81E-06 | 54.540 | .25E-05 | 89.325 | .131E+05 | 175.187 | 3389.716 | -2.526 | .02133 |
| 102. | 3459.756 | -3.529 | .17E-05 | 0.00 | .83E-06 | 53.148 | .25E-05 | 89.196 | .130E+05 | 174.121 | 3387.200 | -2.340 | .02097 |
| 103. | 3456.166 | -3.275 | .17E-05 | 0.00 | .85E-06 | 51.887 | .25E-05 | 89.068 | .128E+05 | 173.059 | 3384.896 | -2.120 | .02062 |
| 104. | 3452.860 | -2.997 | .17E-05 | 0.00 | .87E-06 | 50.743 | .25E-05 | 88.941 | .127E+05 | 171.998 | 3382.836 | -1.870 | .02028 |
| 105. | 3449.863 | -2.697 | .18E-05 | 0.00 | .88E-06 | 49.706 | .25E-05 | 88.815 | .126E+05 | 170.939 | 3381.046 | -1.596 | .01995 |
| 106. | 3447.193 | -2.381 | .18E-05 | 0.00 | .89E-06 | 48.765 | .25E-05 | 88.691 | .125E+05 | 169.880 | 3379.554 | -1.303 | .01962 |
| 107. | 3444.864 | -2.052 | .18E-05 | 0.00 | .90E-06 | 47.912 | .25E-05 | 88.569 | .124E+05 | 168.819 | 3378.371 | -.993 | .01930 |
| 108. | 3442.888 | -1.711 | .18E-05 | 0.00 | .91E-06 | 47.138 | .26E-05 | 88.449 | .123E+05 | 167.756 | 3377.514 | -.671 | .01899 |
| 109. | 3441.276 | -1.362 | .18E-05 | 0.00 | .91E-06 | 46.437 | .26E-05 | 88.333 | .122E+05 | 166.687 | 3376.994 | -.339 | .01868 |
| 110. | 3440.034 | -1.007 | .18E-05 | 0.00 | .92E-06 | 45.803 | .26E-05 | 88.220 | .121E+05 | 165.612 | 3376.819 | .001 | .01838 |
| 111. | 3439.167 | -.646 | .19E-05 | 0.00 | .92E-06 | 45.231 | .26E-05 | 88.110 | .120E+05 | 164.528 | 3376.997 | .345 | .01808 |
| 112. | 3438.682 | -.281 | .19E-05 | 0.00 | .92E-06 | 44.717 | .26E-05 | 88.003 | .119E+05 | 163.435 | 3377.530 | .692 | .01778 |
| 113. | 3438.580 | .086 | .19E-05 | 0.00 | .92E-06 | 44.257 | .27E-05 | 87.901 | .118E+05 | 162.332 | 3378.421 | 1.040 | .01750 |
| 114. | 3438.863 | .455 | .19E-05 | 0.00 | .92E-06 | 43.850 | .27E-05 | 87.802 | .117E+05 | 161.216 | 3379.672 | 1.388 | .01721 |
| 115. | 3439.532 | .823 | .19E-05 | 0.00 | .92E-06 | 43.493 | .27E-05 | 87.708 | .116E+05 | 160.088 | 3381.279 | 1.733 | .01694 |
| 116. | 3440.587 | 1.191 | .20E-05 | 0.00 | .92E-06 | 43.185 | .27E-05 | 87.618 | .115E+05 | 158.947 | 3383.242 | 2.075 | .01667 |
| 117. | 3442.028 | 1.556 | .20E-05 | 0.00 | .91E-06 | 42.926 | .28E-05 | 87.532 | .114E+05 | 157.792 | 3385.556 | 2.411 | .01641 |
| 118. | 3443.851 | 1.918 | .20E-05 | 0.00 | .91E-06 | 42.715 | .28E-05 | 87.451 | .113E+05 | 156.625 | 3388.217 | 2.742 | .01615 |
| 119. | 3446.053 | 2.277 | .20E-05 | 0.00 | .90E-06 | 42.553 | .28E-05 | 87.375 | .112E+05 | 155.447 | 3391.218 | 3.065 | .01591 |
| 120. | 3448.631 | 2.629 | .20E-05 | 0.00 | .90E-06 | 42.441 | .28E-05 | 87.303 | .111E+05 | 154.257 | 3394.553 | 3.380 | .01568 |
| 121. | 3451.579 | 2.976 | .21E-05 | 0.00 | .90E-06 | 42.380 | .29E-05 | 87.236 | .110E+05 | 153.058 | 3398.214 | 3.686 | .01546 |
| 122. | 3454.892 | 3.314 | .21E-05 | 0.00 | .89E-06 | 42.374 | .29E-05 | 87.174 | .109E+05 | 151.852 | 3402.192 | 3.982 | .01525 |
| 123. | 3458.560 | 3.644 | .21E-05 | 0.00 | .88E-06 | 42.423 | .29E-05 | 87.116 | .108E+05 | 150.642 | 3406.478 | 4.268 | .01506 |
| 124. | 3462.577 | 3.963 | .21E-05 | 0.00 | .88E-06 | 42.531 | .29E-05 | 87.063 | .107E+05 | 149.429 | 3411.063 | 4.543 | .01488 |
| 125. | 3466.931 | 4.272 | .21E-05 | 0.00 | .87E-06 | 42.702 | .29E-05 | 87.014 | .106E+05 | 148.219 | 3415.935 | 4.806 | .01471 |
| 126. | 3471.612 | 4.567 | .21E-05 | 0.00 | .86E-06 | 42.939 | .30E-05 | 86.969 | .105E+05 | 147.014 | 3421.084 | 5.057 | .01455 |
| 127. | 3476.607 | 4.849 | .21E-05 | 0.00 | .86E-06 | 43.245 | .30E-05 | 86.927 | .104E+05 | 145.818 | 3426.498 | 5.295 | .01441 |
| 128. | 3481.901 | 5.115 | .22E-05 | 0.00 | .85E-06 | 43.624 | .30E-05 | 86.890 | .103E+05 | 144.635 | 3432.166 | 5.521 | .01428 |
| 129. | 3487.480 | 5.365 | .22E-05 | 0.00 | .84E-06 | 44.081 | .30E-05 | 86.855 | .103E+05 | 143.469 | 3438.073 | 5.733 | .01417 |
| 130. | 3493.327 | 5.597 | .22E-05 | 0.00 | .84E-06 | 44.618 | .30E-05 | 86.824 | .102E+05 | 142.324 | 3444.209 | 5.931 | .01406 |
| 131. | 3499.424 | 5.810 | .22E-05 | 0.00 | .83E-06 | 45.240 | .30E-05 | 86.795 | .101E+05 | 141.203 | 3450.559 | 6.116 | .01396 |
| 132. | 3505.751 | 6.004 | .22E-05 | 0.00 | .82E-06 | 45.949 | .30E-05 | 86.768 | .100E+05 | 140.110 | 3457.110 | 6.286 | .01387 |
| 133. | 3512.288 | 6.177 | .22E-05 | 0.00 | .81E-06 | 46.747 | .31E-05 | 86.744 | .995E+04 | 139.047 | 3463.848 | 6.443 | .01379 |
| 134. | 3519.013 | 6.328 | .22E-05 | 0.00 | .81E-06 | 47.635 | .31E-05 | 86.721 | .987E+04 | 138.017 | 3470.759 | 6.584 | .01371 |
| 135. | 3525.903 | 6.457 | .22E-05 | 0.00 | .80E-06 | 48.615 | .31E-05 | 86.700 | .978E+04 | 137.022 | 3477.827 | 6.711 | .01364 |
| 136. | 3532.935 | 6.564 | .23E-05 | 0.00 | .80E-06 | 49.685 | .31E-05 | 86.680 | .969E+04 | 136.062 | 3485.039 | 6.823 | .01356 |
| 137. | 3540.085 | 6.648 | .23E-05 | 0.00 | .79E-06 | 50.843 | .31E-05 | 86.660 | .959E+04 | 135.137 | 3492.378 | 6.920 | .01348 |
| 138. | 3547.329 | 6.709 | .23E-05 | 0.00 | .79E-06 | 52.084 | .31E-05 | 86.642 | .948E+04 | 134.248 | 3499.828 | 7.001 | .01339 |
| 139. | 3554.642 | 6.747 | .23E-05 | 0.00 | .78E-06 | 53.405 | .31E-05 | 86.625 | .937E+04 | 133.393 | 3507.375 | 7.067 | .01330 |
| 140. | 3562.001 | 6.764 | .23E-05 | 0.00 | .78E-06 | 54.798 | .31E-05 | 86.609 | .925E+04 | 132.569 | 3515.001 | 7.118 | .01319 |
| 141. | 3569.381 | 6.759 | .23E-05 | 0.00 | .77E-06 | 56.254 | .31E-05 | 86.593 | .913E+04 | 131.773 | 3522.691 | 7.153 | .01308 |
| 142. | 3576.760 | 6.735 | .23E-05 | 0.00 | .77E-06 | 57.764 | .31E-05 | 86.579 | .899E+04 | 131.003 | 3530.426 | 7.172 | .01295 |
| 143. | 3584.117 | 6.691 | .23E-05 | 0.00 | .77E-06 | 59.317 | .31E-05 | 86.567 | .885E+04 | 130.254 | 3538.191 | 7.175 | .01281 |
| 144. | 3591.431 | 6.630 | .23E-05 | 0.00 | .77E-06 | 60.900 | .31E-05 | 86.556 | .869E+04 | 129.521 | 3545.968 | 7.162 | .01266 |
| 145. | 3598.682 | 6.553 | .23E-05 | 0.00 | .76E-06 | 62.501 | .31E-05 | 86.548 | .853E+04 | 128.799 | 3553.739 | 7.134 | .01249 |
| 146. | 3605.855 | 6.462 | .23E-05 | 0.00 | .76E-06 | 64.107 | .31E-05 | 86.543 | .836E+04 | 128.083 | 3561.488 | 7.090 | .01230 |
| 147. | 3612.933 | 6.358 | .23E-05 | 0.00 | .76E-06 | 65.707 | .31E-05 | 86.542 | .819E+04 | 127.367 | 3569.197 | 7.031 | .01211 |
| 148. | 3619.903 | 6.243 | .23E-05 | 0.00 | .76E-06 | 67.287 | .31E-05 | 86.545 | .801E+04 | 126.644 | 3576.848 | 6.956 | .01189 |
| 149. | 3626.752 | 6.118 | .23E-05 | 0.00 | .76E-06 | 68.837 | .31E-05 | 86.553 | .782E+04 | 125.910 | 3584.425 | 6.867 | .01167 |

Y-CUT LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3633.470 | 5.986 | .23E-05 | 0.00 | .76E-06 | 70.347 | .31E-05 | 86.566 | .764E+04 | 125.158 | 3591.910 | 6.763 | .01144 |
| 151. | 3640.047 | 5.846 | .23E-05 | 0.00 | .76E-06 | 71.808 | .31E-05 | 86.585 | .745E+04 | 124.384 | 3599.288 | 6.644 | .01120 |
| 152. | 3646.477 | 5.701 | .23E-05 | 0.00 | .75E-06 | 73.214 | .31E-05 | 86.611 | .725E+04 | 123.582 | 3606.541 | 6.512 | .01095 |
| 153. | 3652.752 | 5.551 | .23E-05 | 0.00 | .75E-06 | 74.558 | .31E-05 | 86.644 | .706E+04 | 122.747 | 3613.654 | 6.367 | .01070 |
| 154. | 3658.866 | 5.396 | .23E-05 | 0.00 | .75E-06 | 75.837 | .31E-05 | 86.684 | .688E+04 | 121.877 | 3620.612 | 6.210 | .01046 |
| 155. | 3664.814 | 5.237 | .23E-05 | 0.00 | .75E-06 | 77.047 | .31E-05 | 86.732 | .669E+04 | 120.968 | 3627.400 | 6.040 | .01021 |
| 156. | 3670.591 | 5.075 | .23E-05 | 0.00 | .75E-06 | 78.188 | .31E-05 | 86.788 | .651E+04 | 120.018 | 3634.005 | 5.859 | .00997 |
| 157. | 3676.191 | 4.909 | .23E-05 | 0.00 | .75E-06 | 79.258 | .31E-05 | 86.851 | .634E+04 | 119.026 | 3640.414 | 5.668 | .00973 |
| 158. | 3681.611 | 4.740 | .23E-05 | 0.00 | .75E-06 | 80.257 | .31E-05 | 86.923 | .617E+04 | 117.990 | 3646.614 | 5.467 | .00951 |
| 159. | 3686.844 | 4.566 | .22E-05 | 0.00 | .75E-06 | 81.188 | .31E-05 | 87.003 | .601E+04 | 116.912 | 3652.594 | 5.258 | .00929 |
| 160. | 3691.887 | 4.389 | .22E-05 | 0.00 | .75E-06 | 82.052 | .31E-05 | 87.091 | .586E+04 | 115.793 | 3658.344 | 5.040 | .00909 |
| 161. | 3696.735 | 4.208 | .22E-05 | 0.00 | .74E-06 | 82.850 | .31E-05 | 87.186 | .571E+04 | 114.635 | 3663.853 | 4.815 | .00889 |
| 162. | 3701.381 | 4.023 | .22E-05 | 0.00 | .74E-06 | 83.587 | .31E-05 | 87.289 | .558E+04 | 113.442 | 3669.114 | 4.584 | .00872 |
| 163. | 3705.820 | 3.834 | .22E-05 | 0.00 | .74E-06 | 84.264 | .31E-05 | 87.399 | .545E+04 | 112.216 | 3674.118 | 4.346 | .00855 |
| 164. | 3710.048 | 3.640 | .22E-05 | 0.00 | .73E-06 | 84.886 | .31E-05 | 87.516 | .533E+04 | 110.961 | 3678.860 | 4.104 | .00841 |
| 165. | 3714.057 | 3.441 | .22E-05 | 0.00 | .73E-06 | 85.455 | .31E-05 | 87.640 | .523E+04 | 109.683 | 3683.331 | 3.858 | .00827 |
| 166. | 3717.842 | 3.238 | .22E-05 | 0.00 | .73E-06 | 85.974 | .32E-05 | 87.770 | .513E+04 | 108.385 | 3687.529 | 3.608 | .00815 |
| 167. | 3721.397 | 3.030 | .22E-05 | 0.00 | .73E-06 | 86.448 | .32E-05 | 87.905 | .504E+04 | 107.073 | 3691.447 | 3.356 | .00805 |
| 168. | 3724.717 | 2.818 | .22E-05 | 0.00 | .72E-06 | 86.880 | .32E-05 | 88.046 | .496E+04 | 105.750 | 3695.083 | 3.101 | .00796 |
| 169. | 3727.795 | 2.601 | .22E-05 | 0.00 | .72E-06 | 87.273 | .32E-05 | 88.192 | .488E+04 | 104.421 | 3698.434 | 2.845 | .00788 |
| 170. | 3730.626 | 2.380 | .22E-05 | 0.00 | .72E-06 | 87.631 | .32E-05 | 88.342 | .482E+04 | 103.089 | 3701.497 | 2.587 | .00781 |
| 171. | 3733.205 | 2.154 | .22E-05 | 0.00 | .72E-06 | 87.957 | .32E-05 | 88.497 | .476E+04 | 101.758 | 3704.271 | 2.328 | .00775 |
| 172. | 3735.527 | 1.925 | .22E-05 | 0.00 | .71E-06 | 88.255 | .32E-05 | 88.655 | .471E+04 | 100.430 | 3706.755 | 2.069 | .00770 |
| 173. | 3737.587 | 1.693 | .22E-05 | 0.00 | .71E-06 | 88.527 | .32E-05 | 88.816 | .467E+04 | 99.106 | 3708.947 | 1.810 | .00766 |
| 174. | 3739.381 | 1.457 | .22E-05 | 0.00 | .71E-06 | 88.778 | .32E-05 | 88.980 | .463E+04 | 97.789 | 3710.846 | 1.551 | .00763 |
| 175. | 3740.906 | 1.219 | .22E-05 | 0.00 | .71E-06 | 89.010 | .32E-05 | 89.146 | .460E+04 | 96.478 | 3712.454 | 1.292 | .00761 |
| 176. | 3742.158 | .978 | .22E-05 | 0.00 | .71E-06 | 89.226 | .32E-05 | 89.315 | .457E+04 | 95.173 | 3713.769 | 1.033 | .00759 |
| 177. | 3743.134 | .735 | .22E-05 | 0.00 | .71E-06 | 89.431 | .32E-05 | 89.485 | .456E+04 | 93.874 | 3714.792 | .775 | .00757 |
| 178. | 3743.833 | .491 | .22E-05 | 0.00 | .71E-06 | 89.625 | .32E-05 | 89.656 | .454E+04 | 92.580 | 3715.523 | .516 | .00756 |
| 179. | 3744.253 | .246 | .22E-05 | 0.00 | .71E-06 | 89.814 | .32E-05 | 89.828 | .453E+04 | 91.289 | 3715.961 | .258 | .00756 |
| 180. | 3744.393 | 0.000 | .22E-05 | 0.00 | .71E-06 | 90.000 | .32E-05 | 90.000 | .453E+04 | 90.000 | 3716.107 | 0.000 | .00755 |

X-AXIS BOULE  LITHIUM NIOBATE (SMITH AND WELSH)

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3808.609 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .405E+04 | 90.000 | 3800.741 | 0.000 | .00207 |
| 1. | 3813.483 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .433E+04 | 90.000 | 3804.478 | 0.000 | .00236 |
| 2. | 3818.412 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .461E+04 | 90.000 | 3808.183 | 0.000 | .00268 |
| 3. | 3823.394 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .489E+04 | 90.000 | 3811.857 | 0.000 | .00302 |
| 4. | 3828.432 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .517E+04 | 90.000 | 3815.499 | 0.000 | .00338 |
| 5. | 3833.526 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .28E-05 | 90.000 | .545E+04 | 90.000 | 3819.112 | 0.000 | .00376 |
| 6. | 3838.678 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .28E-05 | 90.000 | .573E+04 | 90.000 | 3822.696 | 0.000 | .00416 |
| 7. | 3843.887 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .28E-05 | 90.000 | .602E+04 | 90.000 | 3826.253 | 0.000 | .00459 |
| 8. | 3849.156 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .28E-05 | 90.000 | .630E+04 | 90.000 | 3829.784 | 0.000 | .00503 |
| 9. | 3854.484 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .27E-05 | 90.000 | .658E+04 | 90.000 | 3833.288 | 0.000 | .00550 |
| 10. | 3859.873 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .686E+04 | 90.000 | 3836.768 | 0.000 | .00599 |
| 11. | 3865.323 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .714E+04 | 90.000 | 3840.223 | 0.000 | .00649 |
| 12. | 3870.835 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .742E+04 | 90.000 | 3843.654 | 0.000 | .00702 |
| 13. | 3876.409 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .770E+04 | 90.000 | 3847.059 | 0.000 | .00757 |
| 14. | 3882.044 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .797E+04 | 90.000 | 3850.438 | 0.000 | .00814 |
| 15. | 3887.741 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .825E+04 | 90.000 | 3853.789 | 0.000 | .00873 |
| 16. | 3893.499 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .853E+04 | 90.000 | 3857.109 | 0.000 | .00935 |
| 17. | 3899.316 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .881E+04 | 90.000 | 3860.396 | 0.000 | .00998 |
| 18. | 3905.191 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .27E-05 | 90.000 | .910E+04 | 90.000 | 3863.644 | 0.000 | .01064 |
| 19. | 3911.120 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .27E-05 | 90.000 | .938E+04 | 90.000 | 3866.850 | 0.000 | .01132 |
| 20. | 3917.101 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .27E-05 | 90.000 | .966E+04 | 90.000 | 3870.006 | 0.000 | .01202 |
| 21. | 3923.129 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .27E-05 | 90.000 | .995E+04 | 90.000 | 3873.104 | 0.000 | .01275 |
| 22. | 3929.198 | 0.000 | .24E-05 | 0.00 | .96E-06 | 90.000 | .27E-05 | 90.000 | .102E+05 | 90.000 | 3876.137 | 0.000 | .01350 |
| 23. | 3935.301 | 0.000 | .24E-05 | 0.00 | .95E-06 | 90.000 | .27E-05 | 90.000 | .105E+05 | 90.000 | 3879.093 | 0.000 | .01428 |
| 24. | 3941.428 | 0.000 | .24E-05 | 0.00 | .94E-06 | 90.000 | .27E-05 | 90.000 | .108E+05 | 90.000 | 3881.960 | 0.000 | .01509 |
| 25. | 3947.566 | 0.000 | .24E-05 | 0.00 | .92E-06 | 90.000 | .27E-05 | 90.000 | .111E+05 | 90.000 | 3884.725 | 0.000 | .01592 |
| 26. | 3953.700 | 0.000 | .24E-05 | 0.00 | .90E-06 | 90.000 | .27E-05 | 90.000 | .114E+05 | 90.000 | 3887.372 | 0.000 | .01678 |
| 27. | 3959.812 | 0.000 | .24E-05 | 0.00 | .87E-06 | 90.000 | .28E-05 | 90.000 | .118E+05 | 90.000 | 3889.884 | 0.000 | .01766 |
| 28. | 3965.874 | 0.000 | .25E-05 | 0.00 | .84E-06 | 90.000 | .28E-05 | 90.000 | .121E+05 | 90.000 | 3892.243 | 0.000 | .01857 |
| 29. | 3971.854 | 0.000 | .25E-05 | 0.00 | .80E-06 | 90.000 | .28E-05 | 90.000 | .124E+05 | 90.000 | 3894.428 | 0.000 | .01949 |
| 30. | 3977.709 | 0.000 | .25E-05 | 0.00 | .75E-06 | 90.000 | .28E-05 | 90.000 | .127E+05 | 90.000 | 3896.417 | 0.000 | .02044 |
| 31. | 3983.381 | 0.000 | .25E-05 | 0.00 | .69E-06 | 90.000 | .29E-05 | 90.000 | .131E+05 | 90.000 | 3898.187 | 0.000 | .02139 |
| 32. | 3988.792 | 0.000 | .26E-05 | 0.00 | .62E-06 | 90.000 | .29E-05 | 90.000 | .135E+05 | 90.000 | 3899.715 | 0.000 | .02233 |
| 33. | 3993.838 | 0.000 | .26E-05 | 0.00 | .53E-06 | 90.000 | .29E-05 | 90.000 | .138E+05 | 90.000 | 3900.976 | 0.000 | .02325 |
| 34. | 3998.375 | 0.000 | .27E-05 | 0.00 | .42E-06 | 90.000 | .30E-05 | 90.000 | .142E+05 | 90.000 | 3901.949 | 0.000 | .02412 |
| 35. | 4002.221 | 0.000 | .27E-05 | 0.00 | .28E-06 | 90.000 | .30E-05 | 90.000 | .145E+05 | 90.000 | 3902.611 | 0.000 | .02489 |
| 36. | 4005.148 | 0.000 | .28E-05 | 0.00 | .12E-06 | 90.000 | .31E-05 | 90.000 | .147E+05 | 90.000 | 3902.943 | 0.000 | .02552 |
| 37. | 4006.922 | 0.000 | .28E-05 | 0.00 | .72E-07 | -90.000 | .31E-05 | 90.000 | .148E+05 | 90.000 | 3902.929 | 0.000 | .02595 |
| 38. | 4007.357 | 0.000 | .28E-05 | 0.00 | .27E-06 | -90.000 | .31E-05 | 90.000 | .147E+05 | 90.000 | 3902.559 | 0.000 | .02615 |
| 39. | 4006.403 | 0.000 | .28E-05 | 0.00 | .46E-06 | -90.000 | .31E-05 | 90.000 | .144E+05 | 90.000 | 3901.824 | 0.000 | .02610 |
| 40. | 4004.160 | 0.000 | .27E-05 | 0.00 | .64E-06 | -90.000 | .31E-05 | 90.000 | .140E+05 | 90.000 | 3900.724 | 0.000 | .02583 |
| 41. | 4000.838 | 0.000 | .27E-05 | 0.00 | .78E-06 | -90.000 | .30E-05 | 90.000 | .136E+05 | 90.000 | 3899.262 | 0.000 | .02539 |
| 42. | 3996.669 | 0.000 | .27E-05 | 0.00 | .90E-06 | -90.000 | .30E-05 | 90.000 | .131E+05 | 90.000 | 3897.448 | 0.000 | .02483 |
| 43. | 3991.865 | 0.000 | .26E-05 | 0.00 | .10E-05 | -90.000 | .29E-05 | 90.000 | .126E+05 | 90.000 | 3895.294 | 0.000 | .02419 |
| 44. | 3986.593 | 0.000 | .26E-05 | 0.00 | .11E-05 | -90.000 | .29E-05 | 90.000 | .122E+05 | 90.000 | 3892.819 | 0.000 | .02352 |
| 45. | 3980.978 | 0.000 | .25E-05 | 0.00 | .11E-05 | -90.000 | .29E-05 | 90.000 | .118E+05 | 90.000 | 3890.043 | 0.000 | .02284 |
| 46. | 3975.114 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .114E+05 | 90.000 | 3886.989 | 0.000 | .02217 |
| 47. | 3969.072 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .28E-05 | 90.000 | .111E+05 | 90.000 | 3883.681 | 0.000 | .02151 |
| 48. | 3962.903 | 0.000 | .25E-05 | 0.00 | .12E-05 | -90.000 | .28E-05 | 90.000 | .108E+05 | 90.000 | 3880.145 | 0.000 | .02088 |
| 49. | 3956.647 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .105E+05 | 90.000 | 3876.404 | 0.000 | .02028 |

X-AXIS BOULE  LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3950.336 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .102E+05 | 90.000 | 3872.482 | 0.000 | .01971 |
| 51. | 3943.995 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .993E+04 | 90.000 | 3868.405 | 0.000 | .01917 |
| 52. | 3937.642 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .969E+04 | 90.000 | 3864.193 | 0.000 | .01865 |
| 53. | 3931.294 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .946E+04 | 90.000 | 3859.867 | 0.000 | .01817 |
| 54. | 3924.964 | 0.000 | .24E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .923E+04 | 90.000 | 3855.448 | 0.000 | .01771 |
| 55. | 3918.662 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .902E+04 | 90.000 | 3850.953 | 0.000 | .01728 |
| 56. | 3912.399 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .882E+04 | 90.000 | 3846.400 | 0.000 | .01687 |
| 57. | 3906.181 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .863E+04 | 90.000 | 3841.804 | 0.000 | .01648 |
| 58. | 3900.016 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .844E+04 | 90.000 | 3837.180 | 0.000 | .01611 |
| 59. | 3893.908 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .826E+04 | 90.000 | 3832.540 | 0.000 | .01576 |
| 60. | 3887.863 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .808E+04 | 90.000 | 3827.897 | 0.000 | .01542 |
| 61. | 3881.884 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .28E-05 | 90.000 | .791E+04 | 90.000 | 3823.262 | 0.000 | .01510 |
| 62. | 3875.976 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .774E+04 | 90.000 | 3818.644 | 0.000 | .01479 |
| 63. | 3870.141 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .758E+04 | 90.000 | 3814.054 | 0.000 | .01449 |
| 64. | 3864.382 | 0.000 | .23E-05 | 0.00 | .13E-05 | -90.000 | .29E-05 | 90.000 | .742E+04 | 90.000 | 3809.500 | 0.000 | .01420 |
| 65. | 3858.702 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .727E+04 | 90.000 | 3804.988 | 0.000 | .01392 |
| 66. | 3853.101 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .712E+04 | 90.000 | 3800.526 | 0.000 | .01364 |
| 67. | 3847.583 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .698E+04 | 90.000 | 3796.120 | 0.000 | .01338 |
| 68. | 3842.147 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .684E+04 | 90.000 | 3791.775 | 0.000 | .01311 |
| 69. | 3836.796 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .670E+04 | 90.000 | 3787.497 | 0.000 | .01285 |
| 70. | 3831.530 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .29E-05 | 90.000 | .657E+04 | 90.000 | 3783.289 | 0.000 | .01259 |
| 71. | 3826.351 | 0.000 | .23E-05 | 0.00 | .12E-05 | -90.000 | .30E-05 | 90.000 | .644E+04 | 90.000 | 3779.154 | 0.000 | .01233 |
| 72. | 3821.258 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .631E+04 | 90.000 | 3775.097 | 0.000 | .01208 |
| 73. | 3816.252 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .618E+04 | 90.000 | 3771.119 | 0.000 | .01183 |
| 74. | 3811.334 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .606E+04 | 90.000 | 3767.223 | 0.000 | .01157 |
| 75. | 3806.503 | 0.000 | .23E-05 | 0.00 | .11E-05 | -90.000 | .30E-05 | 90.000 | .595E+04 | 90.000 | 3763.410 | 0.000 | .01132 |
| 76. | 3801.760 | 0.000 | .22E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .583E+04 | 90.000 | 3759.681 | 0.000 | .01107 |
| 77. | 3797.105 | 0.000 | .22E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .572E+04 | 90.000 | 3756.038 | 0.000 | .01082 |
| 78. | 3792.537 | 0.000 | .22E-05 | 0.00 | .10E-05 | -90.000 | .30E-05 | 90.000 | .561E+04 | 90.000 | 3752.479 | 0.000 | .01056 |
| 79. | 3788.057 | 0.000 | .22E-05 | 0.00 | .98E-06 | -90.000 | .30E-05 | 90.000 | .550E+04 | 90.000 | 3749.006 | 0.000 | .01031 |
| 80. | 3783.663 | 0.000 | .22E-05 | 0.00 | .96E-06 | -90.000 | .31E-05 | 90.000 | .540E+04 | 90.000 | 3745.618 | 0.000 | .01006 |
| 81. | 3779.356 | 0.000 | .22E-05 | 0.00 | .94E-06 | -90.000 | .31E-05 | 90.000 | .530E+04 | 90.000 | 3742.313 | 0.000 | .00980 |
| 82. | 3775.136 | 0.000 | .22E-05 | 0.00 | .91E-06 | -90.000 | .31E-05 | 90.000 | .520E+04 | 90.000 | 3739.092 | 0.000 | .00955 |
| 83. | 3771.000 | 0.000 | .22E-05 | 0.00 | .89E-06 | -90.000 | .31E-05 | 90.000 | .511E+04 | 90.000 | 3735.952 | 0.000 | .00929 |
| 84. | 3766.950 | 0.000 | .22E-05 | 0.00 | .86E-06 | -90.000 | .31E-05 | 90.000 | .502E+04 | 90.000 | 3732.892 | 0.000 | .00904 |
| 85. | 3762.984 | 0.000 | .22E-05 | 0.00 | .84E-06 | -90.000 | .31E-05 | 90.000 | .493E+04 | 90.000 | 3729.911 | 0.000 | .00879 |
| 86. | 3759.102 | 0.000 | .22E-05 | 0.00 | .81E-06 | -90.000 | .31E-05 | 90.000 | .485E+04 | 90.000 | 3727.006 | 0.000 | .00854 |
| 87. | 3755.303 | 0.000 | .22E-05 | 0.00 | .79E-06 | -90.000 | .31E-05 | 90.000 | .476E+04 | 90.000 | 3724.175 | 0.000 | .00829 |
| 88. | 3751.585 | 0.000 | .22E-05 | 0.00 | .76E-06 | -90.000 | .31E-05 | 90.000 | .468E+04 | 90.000 | 3721.417 | 0.000 | .00804 |
| 89. | 3747.949 | 0.000 | .22E-05 | 0.00 | .73E-06 | -90.000 | .32E-05 | 90.000 | .461E+04 | 90.000 | 3718.728 | 0.000 | .00780 |
| 90. | 3744.393 | 0.000 | .22E-05 | 0.00 | .71E-06 | -90.000 | .32E-05 | 90.000 | .453E+04 | 90.000 | 3716.107 | 0.000 | .00755 |
| 91. | 3740.917 | 0.000 | .22E-05 | 0.00 | .68E-06 | -90.000 | .32E-05 | 90.000 | .446E+04 | 90.000 | 3713.552 | 0.000 | .00732 |
| 92. | 3737.519 | 0.000 | .22E-05 | 0.00 | .65E-06 | -90.000 | .32E-05 | 90.000 | .439E+04 | 90.000 | 3711.060 | 0.000 | .00708 |
| 93. | 3734.199 | 0.000 | .22E-05 | 0.00 | .62E-06 | -90.000 | .32E-05 | 90.000 | .432E+04 | 90.000 | 3708.629 | 0.000 | .00685 |
| 94. | 3730.956 | 0.000 | .22E-05 | 0.00 | .59E-06 | -90.000 | .32E-05 | 90.000 | .426E+04 | 90.000 | 3706.258 | 0.000 | .00662 |
| 95. | 3727.788 | 0.000 | .22E-05 | 0.00 | .56E-06 | -90.000 | .32E-05 | 90.000 | .420E+04 | 90.000 | 3703.944 | 0.000 | .00640 |
| 96. | 3724.695 | 0.000 | .22E-05 | 0.00 | .53E-06 | -90.000 | .32E-05 | 90.000 | .414E+04 | 90.000 | 3701.686 | 0.000 | .00618 |
| 97. | 3721.676 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .32E-05 | 90.000 | .408E+04 | 90.000 | 3699.481 | 0.000 | .00596 |
| 98. | 3718.730 | 0.000 | .22E-05 | 0.00 | .47E-06 | -90.000 | .32E-05 | 90.000 | .402E+04 | 90.000 | 3697.329 | 0.000 | .00575 |
| 99. | 3715.856 | 0.000 | .22E-05 | 0.00 | .44E-06 | -90.000 | .33E-05 | 90.000 | .397E+04 | 90.000 | 3695.229 | 0.000 | .00555 |

X-AXIS BOULE  LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3713.053 | 0.000 | .22E-05 | 0.00 | .41E-06 | -90.000 | .33E-05 | 90.000 | .392E+04 | 90.000 | 3693.179 | 0.000 | .00535 |
| 101. | 3710.321 | 0.000 | .22E-05 | 0.00 | .38E-06 | -90.000 | .33E-05 | 90.000 | .387E+04 | 90.000 | 3691.179 | 0.000 | .00516 |
| 102. | 3707.659 | 0.000 | .22E-05 | 0.00 | .34E-06 | -90.000 | .33E-05 | 90.000 | .382E+04 | 90.000 | 3689.227 | 0.000 | .00497 |
| 103. | 3705.067 | 0.000 | .22E-05 | 0.00 | .31E-06 | -90.000 | .33E-05 | 90.000 | .377E+04 | 90.000 | 3687.324 | 0.000 | .00479 |
| 104. | 3702.543 | 0.000 | .22E-05 | 0.00 | .28E-06 | -90.000 | .33E-05 | 90.000 | .373E+04 | 90.000 | 3685.469 | 0.000 | .00461 |
| 105. | 3700.088 | 0.000 | .22E-05 | 0.00 | .24E-06 | -90.000 | .33E-05 | 90.000 | .368E+04 | 90.000 | 3683.663 | 0.000 | .00444 |
| 106. | 3697.702 | 0.000 | .22E-05 | 0.00 | .21E-06 | -90.000 | .33E-05 | 90.000 | .364E+04 | 90.000 | 3681.905 | 0.000 | .00427 |
| 107. | 3695.384 | 0.000 | .22E-05 | 0.00 | .18E-06 | -90.000 | .33E-05 | 90.000 | .360E+04 | 90.000 | 3680.196 | 0.000 | .00411 |
| 108. | 3693.134 | 0.000 | .22E-05 | 0.00 | .14E-06 | -90.000 | .33E-05 | 90.000 | .356E+04 | 90.000 | 3678.536 | 0.000 | .00395 |
| 109. | 3690.954 | 0.000 | .22E-05 | 0.00 | .11E-06 | -90.000 | .33E-05 | 90.000 | .352E+04 | 90.000 | 3676.928 | 0.000 | .00380 |
| 110. | 3688.843 | 0.000 | .22E-05 | 0.00 | .76E-07 | -90.000 | .34E-05 | 90.000 | .348E+04 | 90.000 | 3675.370 | 0.000 | .00365 |
| 111. | 3686.803 | 0.000 | .22E-05 | 0.00 | .42E-07 | -90.000 | .34E-05 | 90.000 | .344E+04 | 90.000 | 3673.866 | 0.000 | .00351 |
| 112. | 3684.834 | 0.000 | .22E-05 | 0.00 | .80E-08 | -90.000 | .34E-05 | 90.000 | .340E+04 | 90.000 | 3672.416 | 0.000 | .00337 |
| 113. | 3682.937 | 0.000 | .22E-05 | 0.00 | .26E-07 | 90.000 | .34E-05 | 90.000 | .336E+04 | 90.000 | 3671.023 | 0.000 | .00323 |
| 114. | 3681.114 | 0.000 | .22E-05 | 0.00 | .60E-07 | 90.000 | .34E-05 | 90.000 | .332E+04 | 90.000 | 3669.687 | 0.000 | .00310 |
| 115. | 3679.368 | 0.000 | .22E-05 | 0.00 | .94E-07 | 90.000 | .34E-05 | 90.000 | .328E+04 | 90.000 | 3668.412 | 0.000 | .00298 |
| 116. | 3677.698 | 0.000 | .22E-05 | 0.00 | .13E-06 | 90.000 | .34E-05 | 90.000 | .324E+04 | 90.000 | 3667.200 | 0.000 | .00285 |
| 117. | 3676.109 | 0.000 | .22E-05 | 0.00 | .16E-06 | 90.000 | .34E-05 | 90.000 | .320E+04 | 90.000 | 3666.052 | 0.000 | .00274 |
| 118. | 3674.602 | 0.000 | .22E-05 | 0.00 | .20E-06 | 90.000 | .34E-05 | 90.000 | .316E+04 | 90.000 | 3664.973 | 0.000 | .00262 |
| 119. | 3673.180 | 0.000 | .22E-05 | 0.00 | .23E-06 | 90.000 | .34E-05 | 90.000 | .312E+04 | 90.000 | 3663.965 | 0.000 | .00251 |
| 120. | 3671.846 | 0.000 | .22E-05 | 0.00 | .26E-06 | 90.000 | .34E-05 | 90.000 | .308E+04 | 90.000 | 3663.031 | 0.000 | .00240 |
| 121. | 3670.603 | 0.000 | .22E-05 | 0.00 | .29E-06 | 90.000 | .34E-05 | 90.000 | .304E+04 | 90.000 | 3662.175 | 0.000 | .00230 |
| 122. | 3669.455 | 0.000 | .22E-05 | 0.00 | .33E-06 | 90.000 | .34E-05 | 90.000 | .300E+04 | 90.000 | 3661.400 | 0.000 | .00220 |
| 123. | 3668.404 | 0.000 | .22E-05 | 0.00 | .36E-06 | 90.000 | .34E-05 | 90.000 | .296E+04 | 90.000 | 3660.710 | 0.000 | .00210 |
| 124. | 3667.455 | 0.000 | .22E-05 | 0.00 | .39E-06 | 90.000 | .34E-05 | 90.000 | .292E+04 | 90.000 | 3660.109 | 0.000 | .00200 |
| 125. | 3666.611 | 0.000 | .23E-05 | 0.00 | .42E-06 | 90.000 | .34E-05 | 90.000 | .288E+04 | 90.000 | 3659.601 | 0.000 | .00191 |
| 126. | 3665.877 | 0.000 | .23E-05 | 0.00 | .45E-06 | 90.000 | .34E-05 | 90.000 | .283E+04 | 90.000 | 3659.189 | 0.000 | .00182 |
| 127. | 3665.255 | 0.000 | .23E-05 | 0.00 | .48E-06 | 90.000 | .34E-05 | 90.000 | .279E+04 | 90.000 | 3658.878 | 0.000 | .00174 |
| 128. | 3664.751 | 0.000 | .23E-05 | 0.00 | .51E-06 | 90.000 | .34E-05 | 90.000 | .275E+04 | 90.000 | 3658.673 | 0.000 | .00166 |
| 129. | 3664.368 | 0.000 | .23E-05 | 0.00 | .54E-06 | 90.000 | .34E-05 | 90.000 | .271E+04 | 90.000 | 3658.577 | 0.000 | .00158 |
| 130. | 3664.109 | 0.000 | .23E-05 | 0.00 | .57E-06 | 90.000 | .34E-05 | 90.000 | .266E+04 | 90.000 | 3658.595 | 0.000 | .00150 |
| 131. | 3663.980 | 0.000 | .23E-05 | 0.00 | .60E-06 | 90.000 | .34E-05 | 90.000 | .262E+04 | 90.000 | 3658.731 | 0.000 | .00143 |
| 132. | 3663.982 | 0.000 | .23E-05 | 0.00 | .62E-06 | 90.000 | .34E-05 | 90.000 | .258E+04 | 90.000 | 3658.988 | 0.000 | .00136 |
| 133. | 3664.121 | 0.000 | .23E-05 | 0.00 | .65E-06 | 90.000 | .34E-05 | 90.000 | .254E+04 | 90.000 | 3659.372 | 0.000 | .00130 |
| 134. | 3664.399 | 0.000 | .23E-05 | 0.00 | .68E-06 | 90.000 | .34E-05 | 90.000 | .249E+04 | 90.000 | 3659.886 | 0.000 | .00123 |
| 135. | 3664.820 | 0.000 | .23E-05 | 0.00 | .70E-06 | 90.000 | .34E-05 | 90.000 | .245E+04 | 90.000 | 3660.532 | 0.000 | .00117 |
| 136. | 3665.385 | 0.000 | .23E-05 | 0.00 | .72E-06 | 90.000 | .34E-05 | 90.000 | .241E+04 | 90.000 | 3661.316 | 0.000 | .00111 |
| 137. | 3666.098 | 0.000 | .23E-05 | 0.00 | .75E-06 | 90.000 | .34E-05 | 90.000 | .236E+04 | 90.000 | 3662.239 | 0.000 | .00105 |
| 138. | 3666.961 | 0.000 | .23E-05 | 0.00 | .77E-06 | 90.000 | .34E-05 | 90.000 | .232E+04 | 90.000 | 3663.305 | 0.000 | .00100 |
| 139. | 3667.975 | 0.000 | .23E-05 | 0.00 | .79E-06 | 90.000 | .33E-05 | 90.000 | .227E+04 | 90.000 | 3664.515 | 0.000 | .00094 |
| 140. | 3669.141 | 0.000 | .23E-05 | 0.00 | .81E-06 | 90.000 | .33E-05 | 90.000 | .222E+04 | 90.000 | 3665.872 | 0.000 | .00089 |
| 141. | 3670.461 | 0.000 | .23E-05 | 0.00 | .83E-06 | 90.000 | .33E-05 | 90.000 | .218E+04 | 90.000 | 3667.377 | 0.000 | .00084 |
| 142. | 3671.934 | 0.000 | .23E-05 | 0.00 | .84E-06 | 90.000 | .33E-05 | 90.000 | .213E+04 | 90.000 | 3669.031 | 0.000 | .00079 |
| 143. | 3673.560 | 0.000 | .23E-05 | 0.00 | .86E-06 | 90.000 | .33E-05 | 90.000 | .208E+04 | 90.000 | 3670.834 | 0.000 | .00074 |
| 144. | 3675.339 | 0.000 | .23E-05 | 0.00 | .88E-06 | 90.000 | .33E-05 | 90.000 | .202E+04 | 90.000 | 3672.786 | 0.000 | .00069 |
| 145. | 3677.268 | 0.000 | .23E-05 | 0.00 | .89E-06 | 90.000 | .33E-05 | 90.000 | .197E+04 | 90.000 | 3674.887 | 0.000 | .00065 |
| 146. | 3679.346 | 0.000 | .23E-05 | 0.00 | .90E-06 | 90.000 | .33E-05 | 90.000 | .191E+04 | 90.000 | 3677.134 | 0.000 | .00060 |
| 147. | 3681.571 | 0.000 | .23E-05 | 0.00 | .92E-06 | 90.000 | .33E-05 | 90.000 | .185E+04 | 90.000 | 3679.526 | 0.000 | .00056 |
| 148. | 3683.939 | 0.000 | .23E-05 | 0.00 | .93E-06 | 90.000 | .33E-05 | 90.000 | .178E+04 | 90.000 | 3682.060 | 0.000 | .00051 |
| 149. | 3686.446 | 0.000 | .23E-05 | 0.00 | .94E-06 | 90.000 | .32E-05 | 90.000 | .171E+04 | 90.000 | 3684.733 | 0.000 | .00046 |

X-AXIS BOULE LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3689.090 | 0.000 | .23E-05 | 0.00 | .95E-06 | 90.000 | .32E-05 | 90.000 | .164E+04 | 90.000 | 3687.540 | 0.000 | .00042 |
| 151. | 3691.865 | 0.000 | .23E-05 | 0.00 | .96E-06 | 90.000 | .32E-05 | 90.000 | .156E+04 | 90.000 | 3690.478 | 0.000 | .00038 |
| 152. | 3694.766 | 0.000 | .23E-05 | 0.00 | .96E-06 | 90.000 | .32E-05 | 90.000 | .148E+04 | 90.000 | 3693.540 | 0.000 | .00033 |
| 153. | 3697.789 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .32E-05 | 90.000 | .139E+04 | 90.000 | 3696.721 | 0.000 | .00029 |
| 154. | 3700.927 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .32E-05 | 90.000 | .129E+04 | 90.000 | 3700.014 | 0.000 | .00025 |
| 155. | 3704.176 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .32E-05 | 90.000 | .119E+04 | 90.000 | 3703.413 | 0.000 | .00021 |
| 156. | 3707.529 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .31E-05 | 90.000 | .107E+04 | 90.000 | 3706.910 | 0.000 | .00017 |
| 157. | 3710.981 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .31E-05 | 90.000 | .954E+03 | 90.000 | 3710.497 | 0.000 | .00013 |
| 158. | 3714.527 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .31E-05 | 90.000 | .826E+03 | 90.000 | 3714.167 | 0.000 | .00010 |
| 159. | 3718.159 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .31E-05 | 90.000 | .689E+03 | 90.000 | 3717.912 | 0.000 | .00007 |
| 160. | 3721.875 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .31E-05 | 90.000 | .544E+03 | 90.000 | 3721.722 | 0.000 | .00004 |
| 161. | 3725.667 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .31E-05 | 90.000 | .389E+03 | 90.000 | 3725.590 | 0.000 | .00002 |
| 162. | 3729.533 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .31E-05 | 90.000 | .225E+03 | 90.000 | 3729.507 | 0.000 | .00001 |
| 163. | 3733.466 | 0.000 | .23E-05 | 0.00 | .99E-06 | 90.000 | .30E-05 | 90.000 | .513E+02 | 90.000 | 3733.465 | 0.000 | 0.00000 |
| 164. | 3737.464 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .131E+03 | -90.000 | 3737.455 | 0.000 | 0.00000 |
| 165. | 3741.522 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .323E+03 | -90.000 | 3741.470 | 0.000 | .00001 |
| 166. | 3745.639 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .525E+03 | -90.000 | 3745.503 | 0.000 | .00004 |
| 167. | 3749.810 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .734E+03 | -90.000 | 3749.545 | 0.000 | .00007 |
| 168. | 3754.035 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .953E+03 | -90.000 | 3753.591 | 0.000 | .00012 |
| 169. | 3758.312 | 0.000 | .23E-05 | 0.00 | .98E-06 | 90.000 | .30E-05 | 90.000 | .118E+04 | -90.000 | 3757.634 | 0.000 | .00018 |
| 170. | 3762.639 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .141E+04 | -90.000 | 3761.669 | 0.000 | .00026 |
| 171. | 3767.015 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .165E+04 | -90.000 | 3765.691 | 0.000 | .00035 |
| 172. | 3771.440 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .190E+04 | -90.000 | 3769.695 | 0.000 | .00046 |
| 173. | 3775.913 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .216E+04 | -90.000 | 3773.677 | 0.000 | .00059 |
| 174. | 3780.436 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .241E+04 | -90.000 | 3777.634 | 0.000 | .00074 |
| 175. | 3785.006 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .268E+04 | -90.000 | 3781.563 | 0.000 | .00091 |
| 176. | 3789.626 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .295E+04 | -90.000 | 3785.463 | 0.000 | .00110 |
| 177. | 3794.296 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .322E+04 | -90.000 | 3789.331 | 0.000 | .00131 |
| 178. | 3799.015 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .29E-05 | 90.000 | .349E+04 | -90.000 | 3793.168 | 0.000 | .00154 |
| 179. | 3803.786 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .377E+04 | -90.000 | 3796.971 | 0.000 | .00179 |
| 180. | 3808.609 | 0.000 | .23E-05 | 0.00 | .97E-06 | 90.000 | .28E-05 | 90.000 | .405E+04 | -90.000 | 3800.741 | 0.000 | .00207 |

X-AXIS CYLINDER  LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3924.685 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.331 | .103E+05 | 65.140 | 3881.421 | 0.000 | .01102 |
| 1. | 3918.213 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.851 | .101E+05 | 63.569 | 3876.452 | 0.000 | .01066 |
| 2. | 3911.400 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 98.334 | .994E+04 | 61.918 | 3871.202 | 0.000 | .01028 |
| 3. | 3904.294 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 98.778 | .973E+04 | 60.179 | 3865.702 | 0.000 | .00988 |
| 4. | 3896.942 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .30E-05 | 99.184 | .952E+04 | 58.349 | 3859.981 | 0.000 | .00948 |
| 5. | 3889.389 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .30E-05 | 99.550 | .930E+04 | 56.420 | 3854.071 | 0.000 | .00908 |
| 6. | 3881.679 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .30E-05 | 99.877 | .908E+04 | 54.388 | 3847.999 | 0.000 | .00868 |
| 7. | 3873.852 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .30E-05 | 100.164 | .886E+04 | 52.245 | 3841.793 | 0.000 | .00828 |
| 8. | 3865.947 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .30E-05 | 100.413 | .863E+04 | 49.984 | 3835.482 | 0.000 | .00788 |
| 9. | 3858.000 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .30E-05 | 100.623 | .841E+04 | 47.598 | 3829.088 | 0.000 | .00749 |
| 10. | 3850.043 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .30E-05 | 100.795 | .818E+04 | 45.080 | 3822.637 | 0.000 | .00712 |
| 11. | 3842.107 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.931 | .796E+04 | 42.422 | 3816.150 | 0.000 | .00676 |
| 12. | 3834.220 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.030 | .775E+04 | 39.615 | 3809.647 | 0.000 | .00641 |
| 13. | 3826.406 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.095 | .754E+04 | 36.652 | 3803.145 | 0.000 | .00608 |
| 14. | 3818.688 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.127 | .733E+04 | 33.525 | 3796.663 | 0.000 | .00577 |
| 15. | 3811.085 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.125 | .714E+04 | 30.227 | 3790.213 | 0.000 | .00548 |
| 16. | 3803.614 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.093 | .695E+04 | 26.751 | 3783.807 | 0.000 | .00521 |
| 17. | 3796.292 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 101.032 | .678E+04 | 23.092 | 3777.457 | 0.000 | .00496 |
| 18. | 3789.130 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.942 | .662E+04 | 19.249 | 3771.171 | 0.000 | .00474 |
| 19. | 3782.139 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.826 | .648E+04 | 15.220 | 3764.954 | 0.000 | .00454 |
| 20. | 3775.328 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.685 | .635E+04 | 11.010 | 3758.813 | 0.000 | .00437 |
| 21. | 3768.704 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.521 | .624E+04 | 6.625 | 3752.749 | 0.000 | .00423 |
| 22. | 3762.272 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.336 | .615E+04 | 2.081 | 3746.763 | 0.000 | .00412 |
| 23. | 3756.034 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 100.130 | .609E+04 | -2.607 | 3740.856 | 0.000 | .00404 |
| 24. | 3749.993 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 99.907 | .604E+04 | -7.415 | 3735.024 | 0.000 | .00399 |
| 25. | 3744.147 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 99.667 | .603E+04 | -12.316 | 3729.263 | 0.000 | .00398 |
| 26. | 3738.497 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 99.413 | .604E+04 | -17.277 | 3723.569 | 0.000 | .00399 |
| 27. | 3733.038 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 99.146 | .607E+04 | -22.265 | 3717.933 | 0.000 | .00405 |
| 28. | 3727.766 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 98.868 | .614E+04 | -27.246 | 3712.347 | 0.000 | .00414 |
| 29. | 3722.676 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 98.581 | .623E+04 | -32.185 | 3706.802 | 0.000 | .00426 |
| 30. | 3717.759 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 98.287 | .634E+04 | -37.052 | 3701.286 | 0.000 | .00443 |
| 31. | 3713.009 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.988 | .649E+04 | -41.819 | 3695.789 | 0.000 | .00464 |
| 32. | 3708.415 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.685 | .665E+04 | -46.464 | 3690.296 | 0.000 | .00489 |
| 33. | 3703.966 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.380 | .685E+04 | -50.970 | 3684.795 | 0.000 | .00518 |
| 34. | 3699.652 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 97.075 | .706E+04 | -55.325 | 3679.270 | 0.000 | .00551 |
| 35. | 3695.458 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.772 | .730E+04 | -59.522 | 3673.709 | 0.000 | .00589 |
| 36. | 3691.373 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.472 | .755E+04 | -63.558 | 3668.096 | 0.000 | .00631 |
| 37. | 3687.390 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 96.177 | .783E+04 | -67.432 | 3662.416 | 0.000 | .00677 |
| 38. | 3683.465 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.887 | .812E+04 | -71.148 | 3656.657 | 0.000 | .00728 |
| 39. | 3679.611 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.606 | .842E+04 | -74.711 | 3650.804 | 0.000 | .00783 |
| 40. | 3675.804 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.333 | .874E+04 | -78.126 | 3644.845 | 0.000 | .00842 |
| 41. | 3672.025 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 95.071 | .906E+04 | -81.402 | 3638.770 | 0.000 | .00906 |
| 42. | 3668.258 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.820 | .940E+04 | -84.545 | 3632.569 | 0.000 | .00973 |
| 43. | 3664.486 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.580 | .974E+04 | -87.565 | 3626.233 | 0.000 | .01044 |
| 44. | 3660.692 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.354 | .101E+05 | -90.467 | 3619.759 | 0.000 | .01118 |
| 45. | 3656.859 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 94.142 | .104E+05 | -93.262 | 3613.142 | 0.000 | .01195 |
| 46. | 3652.973 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.943 | .108E+05 | -95.954 | 3606.382 | 0.000 | .01275 |
| 47. | 3649.018 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.760 | .112E+05 | -98.553 | 3599.481 | 0.000 | .01358 |
| 48. | 3644.980 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.590 | .115E+05 | -101.064 | 3592.444 | 0.000 | .01441 |
| 49. | 3640.847 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.436 | .119E+05 | -103.494 | 3585.278 | 0.000 | .01526 |

X-AXIS CYLINDER  LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3636.608 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .32E-05 | 93.297 | .122E+05 | -105.849 | 3577.993 | 0.000 | .01612 |
| 51. | 3632.256 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.171 | .125E+05 | -108.134 | 3570.603 | 0.000 | .01697 |
| 52. | 3627.782 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.060 | .129E+05 | -110.355 | 3563.121 | 0.000 | .01782 |
| 53. | 3623.184 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.962 | .132E+05 | -112.516 | 3555.567 | 0.000 | .01866 |
| 54. | 3618.459 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.877 | .135E+05 | -114.623 | 3547.959 | 0.000 | .01948 |
| 55. | 3613.610 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.804 | .138E+05 | -116.679 | 3540.318 | 0.000 | .02028 |
| 56. | 3608.639 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.742 | .140E+05 | -118.688 | 3532.667 | 0.000 | .02105 |
| 57. | 3603.555 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.690 | .143E+05 | -120.655 | 3525.030 | 0.000 | .02179 |
| 58. | 3598.367 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.647 | .145E+05 | -122.582 | 3517.432 | 0.000 | .02249 |
| 59. | 3593.088 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.611 | .147E+05 | -124.474 | 3509.897 | 0.000 | .02315 |
| 60. | 3587.732 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.582 | .149E+05 | -126.333 | 3502.451 | 0.000 | .02377 |
| 61. | 3582.319 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.558 | .151E+05 | -128.162 | 3495.118 | 0.000 | .02434 |
| 62. | 3576.858 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .30E-05 | 92.537 | .153E+05 | -129.963 | 3487.925 | 0.000 | .02487 |
| 63. | 3571.402 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.519 | .154E+05 | -131.740 | 3480.894 | 0.000 | .02534 |
| 64. | 3565.943 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.503 | .155E+05 | -133.495 | 3474.050 | 0.000 | .02577 |
| 65. | 3560.518 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.487 | .156E+05 | -135.230 | 3467.415 | 0.000 | .02615 |
| 66. | 3555.152 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.470 | .157E+05 | -136.946 | 3461.012 | 0.000 | .02648 |
| 67. | 3549.872 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 92.451 | .158E+05 | -138.646 | 3454.862 | 0.000 | .02676 |
| 68. | 3544.704 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 92.429 | .158E+05 | -140.332 | 3448.983 | 0.000 | .02700 |
| 69. | 3539.676 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .28E-05 | 92.403 | .158E+05 | -142.004 | 3443.394 | 0.000 | .02720 |
| 70. | 3534.814 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 92.373 | .158E+05 | -143.664 | 3438.113 | 0.000 | .02736 |
| 71. | 3530.144 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .27E-05 | 92.338 | .158E+05 | -145.314 | 3433.156 | 0.000 | .02747 |
| 72. | 3525.690 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .27E-05 | 92.296 | .158E+05 | -146.955 | 3428.537 | 0.000 | .02756 |
| 73. | 3521.476 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .27E-05 | 92.249 | .158E+05 | -148.588 | 3424.271 | 0.000 | .02760 |
| 74. | 3517.524 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .27E-05 | 92.194 | .158E+05 | -150.213 | 3420.369 | 0.000 | .02762 |
| 75. | 3513.855 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 92.133 | .157E+05 | -151.831 | 3416.844 | 0.000 | .02761 |
| 76. | 3510.487 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 92.064 | .157E+05 | -153.444 | 3413.705 | 0.000 | .02757 |
| 77. | 3507.440 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.988 | .156E+05 | -155.051 | 3410.962 | 0.000 | .02751 |
| 78. | 3504.726 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.905 | .156E+05 | -156.653 | 3408.623 | 0.000 | .02742 |
| 79. | 3502.361 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.814 | .155E+05 | -158.252 | 3406.694 | 0.000 | .02732 |
| 80. | 3500.356 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.715 | .155E+05 | -159.846 | 3405.183 | 0.000 | .02719 |
| 81. | 3498.721 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.609 | .154E+05 | -161.436 | 3404.093 | 0.000 | .02705 |
| 82. | 3497.463 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.497 | .154E+05 | -163.023 | 3403.430 | 0.000 | .02689 |
| 83. | 3496.588 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.377 | .153E+05 | -164.607 | 3403.196 | 0.000 | .02671 |
| 84. | 3496.100 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.251 | .152E+05 | -166.187 | 3403.394 | 0.000 | .02652 |
| 85. | 3496.000 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 91.118 | .152E+05 | -167.765 | 3404.025 | 0.000 | .02631 |
| 86. | 3496.290 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.979 | .151E+05 | -169.339 | 3405.090 | 0.000 | .02608 |
| 87. | 3496.966 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.834 | .150E+05 | -170.910 | 3406.589 | 0.000 | .02584 |
| 88. | 3498.025 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.684 | .150E+05 | -172.478 | 3408.519 | 0.000 | .02559 |
| 89. | 9999.999 | 0.000 | .99E-05 | 0.00 | 0. | 0.000 | .99E-05 | 99.999 | .999E+05 | 999.999 | 3410.878 | 0.000 | .99999 |
| 90. | 3501.266 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.369 | .148E+05 | -175.604 | 3413.664 | 0.000 | .02502 |
| 91. | 3503.433 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.204 | .147E+05 | -177.162 | 3416.872 | 0.000 | .02471 |
| 92. | 3505.949 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 90.035 | .147E+05 | -178.715 | 3420.496 | 0.000 | .02437 |
| 93. | 3508.802 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .26E-05 | 89.862 | .146E+05 | 179.735 | 3424.530 | 0.000 | .02402 |
| 94. | 3511.979 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 89.685 | .145E+05 | 178.190 | 3428.966 | 0.000 | .02364 |
| 95. | 3515.463 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 89.504 | .144E+05 | 176.649 | 3433.796 | 0.000 | .02323 |
| 96. | 3519.239 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 89.319 | .143E+05 | 175.112 | 3439.009 | 0.000 | .02280 |
| 97. | 3523.287 | 0.000 | .18E-05 | 0.00 | 0. | 0.000 | .27E-05 | 89.131 | .141E+05 | 173.581 | 3444.594 | 0.000 | .02234 |
| 98. | 3527.591 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 88.940 | .140E+05 | 172.056 | 3450.538 | 0.000 | .02184 |
| 99. | 3532.129 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 88.745 | .138E+05 | 170.536 | 3456.828 | 0.000 | .02132 |

X-AXIS CYLINDER LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3536.882 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 88.547 | .137E+05 | 169.021 | 3463.448 | 0.000 | .02076 |
| 101. | 3541.828 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 88.345 | .135E+05 | 167.514 | 3470.380 | 0.000 | .02017 |
| 102. | 3546.948 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 88.139 | .133E+05 | 166.013 | 3477.608 | 0.000 | .01955 |
| 103. | 3552.221 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 87.930 | .131E+05 | 164.519 | 3485.110 | 0.000 | .01889 |
| 104. | 3557.625 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .29E-05 | 87.717 | .128E+05 | 163.033 | 3492.866 | 0.000 | .01820 |
| 105. | 3563.142 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 87.499 | .126E+05 | 161.554 | 3500.853 | 0.000 | .01748 |
| 106. | 3568.752 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.277 | .123E+05 | 160.084 | 3509.048 | 0.000 | .01673 |
| 107. | 3574.437 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 87.051 | .120E+05 | 158.624 | 3517.426 | 0.000 | .01595 |
| 108. | 3580.180 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.820 | .117E+05 | 157.172 | 3525.960 | 0.000 | .01514 |
| 109. | 3585.967 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.583 | .114E+05 | 155.732 | 3534.625 | 0.000 | .01432 |
| 110. | 3591.784 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .30E-05 | 86.342 | .110E+05 | 154.302 | 3543.394 | 0.000 | .01347 |
| 111. | 3597.618 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.096 | .106E+05 | 152.885 | 3552.238 | 0.000 | .01261 |
| 112. | 3603.461 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.844 | .103E+05 | 151.481 | 3561.132 | 0.000 | .01175 |
| 113. | 3609.304 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.587 | .987E+04 | 150.092 | 3570.049 | 0.000 | .01088 |
| 114. | 3615.142 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.325 | .945E+04 | 148.720 | 3578.961 | 0.000 | .01001 |
| 115. | 3620.970 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.057 | .903E+04 | 147.365 | 3587.846 | 0.000 | .00915 |
| 116. | 3626.787 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 84.785 | .859E+04 | 146.032 | 3596.680 | 0.000 | .00830 |
| 117. | 3632.593 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 84.508 | .815E+04 | 144.722 | 3605.441 | 0.000 | .00747 |
| 118. | 3638.389 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 84.228 | .769E+04 | 143.440 | 3614.111 | 0.000 | .00667 |
| 119. | 3644.179 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 83.943 | .723E+04 | 142.190 | 3622.674 | 0.000 | .00590 |
| 120. | 3649.968 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 83.656 | .676E+04 | 140.977 | 3631.115 | 0.000 | .00517 |
| 121. | 3655.760 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 83.366 | .628E+04 | 139.811 | 3639.425 | 0.000 | .00447 |
| 122. | 3661.565 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 83.075 | .580E+04 | 138.699 | 3647.594 | 0.000 | .00382 |
| 123. | 3667.389 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 82.783 | .532E+04 | 137.657 | 3655.619 | 0.000 | .00321 |
| 124. | 3673.242 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 82.492 | .484E+04 | 136.703 | 3663.497 | 0.000 | .00265 |
| 125. | 3679.132 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 82.202 | .435E+04 | 135.863 | 3671.229 | 0.000 | .00215 |
| 126. | 3685.069 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.914 | .387E+04 | 135.177 | 3678.818 | 0.000 | .00170 |
| 127. | 3691.064 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.631 | .339E+04 | 134.706 | 3686.269 | 0.000 | .00130 |
| 128. | 3697.125 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.353 | .291E+04 | 134.549 | 3693.589 | 0.000 | .00096 |
| 129. | 3703.262 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.081 | .243E+04 | 134.880 | 3700.787 | 0.000 | .00067 |
| 130. | 3709.484 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.816 | .196E+04 | 136.035 | 3707.873 | 0.000 | .00043 |
| 131. | 3715.801 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.562 | .150E+04 | 138.740 | 3714.857 | 0.000 | .00025 |
| 132. | 3722.219 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.318 | .106E+04 | 144.884 | 3721.750 | 0.000 | .00013 |
| 133. | 3728.746 | 0.000 | .21E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.086 | .661E+03 | 160.612 | 3728.563 | 0.000 | .00005 |
| 134. | 3735.389 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.868 | .440E+03 | -156.319 | 3735.308 | 0.000 | .00002 |
| 135. | 3742.152 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.665 | .613E+03 | -109.275 | 3741.994 | 0.000 | .00004 |
| 136. | 3749.039 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.479 | .986E+03 | -91.305 | 3748.633 | 0.000 | .00011 |
| 137. | 3756.053 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.311 | .140E+04 | -84.385 | 3755.231 | 0.000 | .00022 |
| 138. | 3763.196 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.164 | .183E+04 | -81.294 | 3761.798 | 0.000 | .00037 |
| 139. | 3770.468 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.038 | .226E+04 | -79.872 | 3768.338 | 0.000 | .00056 |
| 140. | 3777.865 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.934 | .268E+04 | -79.307 | 3774.858 | 0.000 | .00080 |
| 141. | 3785.386 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.856 | .311E+04 | -79.234 | 3781.360 | 0.000 | .00106 |
| 142. | 3793.024 | 0.000 | .22E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.803 | .353E+04 | -79.464 | 3787.844 | 0.000 | .00137 |
| 143. | 3800.773 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.777 | .394E+04 | -79.892 | 3794.311 | 0.000 | .00170 |
| 144. | 3808.622 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.781 | .435E+04 | -80.453 | 3800.758 | 0.000 | .00206 |
| 145. | 3816.560 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.814 | .475E+04 | -81.106 | 3807.180 | 0.000 | .00246 |
| 146. | 3824.573 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.879 | .515E+04 | -81.824 | 3813.570 | 0.000 | .00288 |
| 147. | 3832.644 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 78.976 | .554E+04 | -82.588 | 3819.920 | 0.000 | .00332 |
| 148. | 3840.754 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.107 | .593E+04 | -83.384 | 3826.219 | 0.000 | .00378 |
| 149. | 3848.882 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.272 | .630E+04 | -84.202 | 3832.452 | 0.000 | .00427 |

X-AXIS CYLINDER LITHIUM NIOBATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3857.003 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.473 | .667E+04 | -85.036 | 3838.607 | 0.000 | .00477 |
| 151. | 3865.090 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.711 | .704E+04 | -85.880 | 3844.664 | 0.000 | .00528 |
| 152. | 3873.113 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 79.986 | .739E+04 | -86.730 | 3850.605 | 0.000 | .00581 |
| 153. | 3881.038 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.298 | .774E+04 | -87.583 | 3856.409 | 0.000 | .00635 |
| 154. | 3888.831 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 80.649 | .807E+04 | -88.438 | 3862.053 | 0.000 | .00689 |
| 155. | 3896.451 | 0.000 | .24E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.037 | .840E+04 | -89.292 | 3867.513 | 0.000 | .00743 |
| 156. | 3903.860 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.463 | .871E+04 | -90.145 | 3872.764 | 0.000 | .00797 |
| 157. | 3911.014 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 81.927 | .901E+04 | -90.998 | 3877.779 | 0.000 | .00850 |
| 158. | 3917.867 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 82.428 | .930E+04 | -91.849 | 3882.530 | 0.000 | .00902 |
| 159. | 3924.374 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 82.964 | .957E+04 | -92.700 | 3886.990 | 0.000 | .00953 |
| 160. | 3930.487 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 83.535 | .983E+04 | -93.552 | 3891.131 | 0.000 | .01001 |
| 161. | 3936.160 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 84.138 | .101E+05 | -94.406 | 3894.925 | 0.000 | .01048 |
| 162. | 3941.347 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 84.772 | .103E+05 | -95.264 | 3898.346 | 0.000 | .01091 |
| 163. | 3946.002 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 85.434 | .105E+05 | -96.127 | 3901.369 | 0.000 | .01131 |
| 164. | 3950.083 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.121 | .107E+05 | -96.999 | 3903.971 | 0.000 | .01167 |
| 165. | 3953.551 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 86.830 | .108E+05 | -97.882 | 3906.129 | 0.000 | .01199 |
| 166. | 3956.374 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 87.557 | .110E+05 | -98.778 | 3907.826 | 0.000 | .01227 |
| 167. | 3958.521 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 88.299 | .111E+05 | -99.691 | 3909.046 | 0.000 | .01250 |
| 168. | 3959.970 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.051 | .111E+05 | -100.625 | 3909.777 | 0.000 | .01268 |
| 169. | 3960.707 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 89.809 | .112E+05 | -101.583 | 3910.011 | 0.000 | .01280 |
| 170. | 3960.723 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 90.568 | .112E+05 | -102.568 | 3909.744 | 0.000 | .01287 |
| 171. | 3960.019 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 91.325 | .112E+05 | -103.585 | 3908.976 | 0.000 | .01289 |
| 172. | 3958.600 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.074 | .112E+05 | -104.638 | 3907.711 | 0.000 | .01286 |
| 173. | 3956.484 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 92.811 | .112E+05 | -105.730 | 3905.957 | 0.000 | .01277 |
| 174. | 3953.691 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 93.532 | .111E+05 | -106.867 | 3903.726 | 0.000 | .01264 |
| 175. | 3950.251 | 0.000 | .26E-05 | 0.00 | 0. | 0.000 | .31E-05 | 94.234 | .110E+05 | -108.052 | 3901.034 | 0.000 | .01246 |
| 176. | 3946.198 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 94.912 | .109E+05 | -109.290 | 3897.900 | 0.000 | .01224 |
| 177. | 3941.570 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 95.563 | .108E+05 | -110.585 | 3894.346 | 0.000 | .01198 |
| 178. | 3936.411 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 96.185 | .106E+05 | -111.942 | 3890.397 | 0.000 | .01169 |
| 179. | 3930.767 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 96.775 | .105E+05 | -113.365 | 3886.079 | 0.000 | .01137 |
| 180. | 3924.685 | 0.000 | .25E-05 | 0.00 | 0. | 0.000 | .31E-05 | 97.331 | .103E+05 | -114.860 | 3881.421 | 0.000 | .01102 |

Y-CUT LITHIUM NIOBATE (KOROLYUK ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3720.212 | 0.000 | .22E-05 | 0.00 | .78E-06 | -90.000 | .31E-05 | 90.000 | .440E+04 | 90.000 | 3695.724 | 0.000 | .00658 |
| 1. | 3720.099 | -.200 | .22E-05 | 0.00 | .78E-06 | -90.147 | .31E-05 | 89.875 | .440E+04 | 91.108 | 3695.598 | -.225 | .00659 |
| 2. | 3719.758 | -.400 | .22E-05 | 0.00 | .78E-06 | -90.297 | .31E-05 | 89.751 | .441E+04 | 92.217 | 3695.217 | -.451 | .00660 |
| 3. | 3719.192 | -.599 | .22E-05 | 0.00 | .78E-06 | -90.455 | .31E-05 | 89.627 | .443E+04 | 93.327 | 3694.583 | -.676 | .00662 |
| 4. | 3718.400 | -.798 | .22E-05 | 0.00 | .78E-06 | -90.623 | .31E-05 | 89.504 | .445E+04 | 94.438 | 3693.695 | -.902 | .00664 |
| 5. | 3717.385 | -.995 | .22E-05 | 0.00 | .78E-06 | -90.805 | .31E-05 | 89.383 | .448E+04 | 95.550 | 3692.553 | -1.127 | .00668 |
| 6. | 3716.147 | -1.191 | .22E-05 | 0.00 | .78E-06 | -91.004 | .31E-05 | 89.264 | .452E+04 | 96.663 | 3691.159 | -1.353 | .00672 |
| 7. | 3714.688 | -1.386 | .22E-05 | 0.00 | .78E-06 | -91.226 | .31E-05 | 89.147 | .456E+04 | 97.777 | 3689.512 | -1.578 | .00678 |
| 8. | 3713.011 | -1.578 | .22E-05 | 0.00 | .78E-06 | -91.472 | .31E-05 | 89.032 | .461E+04 | 98.890 | 3687.612 | -1.803 | .00684 |
| 9. | 3711.118 | -1.769 | .22E-05 | 0.00 | .78E-06 | -91.747 | .31E-05 | 88.920 | .467E+04 | 100.001 | 3685.460 | -2.027 | .00691 |
| 10. | 3709.010 | -1.958 | .22E-05 | 0.00 | .78E-06 | -92.055 | .31E-05 | 88.812 | .474E+04 | 101.108 | 3683.058 | -2.251 | .00700 |
| 11. | 3706.692 | -2.145 | .22E-05 | 0.00 | .78E-06 | -92.400 | .31E-05 | 88.707 | .481E+04 | 102.209 | 3680.406 | -2.475 | .00709 |
| 12. | 3704.165 | -2.330 | .22E-05 | 0.00 | .78E-06 | -92.785 | .31E-05 | 88.606 | .490E+04 | 103.301 | 3677.506 | -2.697 | .00720 |
| 13. | 3701.431 | -2.514 | .22E-05 | 0.00 | .78E-06 | -93.215 | .31E-05 | 88.510 | .499E+04 | 104.381 | 3674.359 | -2.918 | .00731 |
| 14. | 3698.493 | -2.696 | .22E-05 | 0.00 | .77E-06 | -93.693 | .31E-05 | 88.418 | .509E+04 | 105.446 | 3670.969 | -3.138 | .00744 |
| 15. | 3695.353 | -2.876 | .22E-05 | 0.00 | .77E-06 | -94.224 | .31E-05 | 88.331 | .519E+04 | 106.494 | 3667.336 | -3.355 | .00758 |
| 16. | 3692.013 | -3.055 | .22E-05 | 0.00 | .77E-06 | -94.812 | .31E-05 | 88.250 | .531E+04 | 107.521 | 3663.466 | -3.570 | .00773 |
| 17. | 3688.475 | -3.233 | .22E-05 | 0.00 | .77E-06 | -95.461 | .31E-05 | 88.173 | .543E+04 | 108.525 | 3659.360 | -3.781 | .00789 |
| 18. | 3684.740 | -3.411 | .22E-05 | 0.00 | .77E-06 | -96.175 | .32E-05 | 88.103 | .556E+04 | 109.503 | 3655.025 | -3.990 | .00806 |
| 19. | 3680.809 | -3.588 | .22E-05 | 0.00 | .76E-06 | -96.958 | .32E-05 | 88.038 | .570E+04 | 110.453 | 3650.463 | -4.194 | .00824 |
| 20. | 3676.683 | -3.765 | .23E-05 | 0.00 | .76E-06 | -97.813 | .32E-05 | 87.980 | .584E+04 | 111.375 | 3645.682 | -4.394 | .00843 |
| 21. | 3672.364 | -3.942 | .23E-05 | 0.00 | .76E-06 | -98.744 | .32E-05 | 87.927 | .599E+04 | 112.267 | 3640.688 | -4.588 | .00863 |
| 22. | 3667.851 | -4.119 | .23E-05 | 0.00 | .75E-06 | -99.753 | .32E-05 | 87.880 | .614E+04 | 113.128 | 3635.487 | -4.776 | .00882 |
| 23. | 3663.145 | -4.295 | .23E-05 | 0.00 | .75E-06 | -100.842 | .32E-05 | 87.839 | .630E+04 | 113.960 | 3630.088 | -4.957 | .00902 |
| 24. | 3658.247 | -4.472 | .23E-05 | 0.00 | .74E-06 | -102.013 | .32E-05 | 87.804 | .646E+04 | 114.764 | 3624.499 | -5.131 | .00923 |
| 25. | 3653.159 | -4.648 | .23E-05 | 0.00 | .74E-06 | -103.267 | .32E-05 | 87.774 | .663E+04 | 115.541 | 3618.730 | -5.297 | .00942 |
| 26. | 3647.881 | -4.823 | .23E-05 | 0.00 | .73E-06 | -104.602 | .32E-05 | 87.750 | .679E+04 | 116.294 | 3612.791 | -5.454 | .00962 |
| 27. | 3642.417 | -4.995 | .23E-05 | 0.00 | .73E-06 | -106.016 | .32E-05 | 87.730 | .695E+04 | 117.027 | 3606.693 | -5.601 | .00981 |
| 28. | 3636.769 | -5.165 | .23E-05 | 0.00 | .72E-06 | -107.506 | .32E-05 | 87.715 | .711E+04 | 117.743 | 3600.448 | -5.738 | .00999 |
| 29. | 3630.944 | -5.330 | .23E-05 | 0.00 | .72E-06 | -109.066 | .32E-05 | 87.703 | .727E+04 | 118.447 | 3594.069 | -5.863 | .01016 |
| 30. | 3624.946 | -5.490 | .23E-05 | 0.00 | .71E-06 | -110.690 | .32E-05 | 87.695 | .742E+04 | 119.143 | 3587.569 | -5.977 | .01031 |
| 31. | 3618.785 | -5.642 | .23E-05 | 0.00 | .71E-06 | -112.368 | .32E-05 | 87.690 | .757E+04 | 119.836 | 3580.962 | -6.079 | .01045 |
| 32. | 3612.470 | -5.785 | .23E-05 | 0.00 | .70E-06 | -114.091 | .32E-05 | 87.688 | .771E+04 | 120.533 | 3574.262 | -6.168 | .01058 |
| 33. | 3606.013 | -5.918 | .23E-05 | 0.00 | .70E-06 | -115.845 | .32E-05 | 87.687 | .784E+04 | 121.238 | 3567.485 | -6.243 | .01068 |
| 34. | 3599.428 | -6.037 | .23E-05 | 0.00 | .70E-06 | -117.618 | .32E-05 | 87.687 | .796E+04 | 121.957 | 3560.645 | -6.305 | .01077 |
| 35. | 3592.731 | -6.142 | .23E-05 | 0.00 | .69E-06 | -119.396 | .32E-05 | 87.688 | .808E+04 | 122.696 | 3553.758 | -6.352 | .01085 |
| 36. | 3585.938 | -6.231 | .23E-05 | 0.00 | .69E-06 | -121.164 | .32E-05 | 87.690 | .818E+04 | 123.461 | 3546.841 | -6.385 | .01090 |
| 37. | 3579.071 | -6.301 | .23E-05 | 0.00 | .69E-06 | -122.907 | .32E-05 | 87.692 | .828E+04 | 124.255 | 3539.908 | -6.404 | .01094 |
| 38. | 3572.150 | -6.352 | .23E-05 | 0.00 | .69E-06 | -124.610 | .32E-05 | 87.693 | .837E+04 | 125.085 | 3532.977 | -6.408 | .01097 |
| 39. | 3565.197 | -6.383 | .23E-05 | 0.00 | .69E-06 | -126.262 | .32E-05 | 87.694 | .845E+04 | 125.955 | 3526.064 | -6.397 | .01098 |
| 40. | 3558.237 | -6.392 | .23E-05 | 0.00 | .69E-06 | -127.848 | .32E-05 | 87.695 | .851E+04 | 126.868 | 3519.184 | -6.371 | .01098 |
| 41. | 3551.292 | -6.378 | .23E-05 | 0.00 | .69E-06 | -129.360 | .32E-05 | 87.696 | .858E+04 | 127.829 | 3512.353 | -6.331 | .01096 |
| 42. | 3544.388 | -6.342 | .23E-05 | 0.00 | .69E-06 | -130.788 | .32E-05 | 87.696 | .863E+04 | 128.838 | 3505.587 | -6.275 | .01095 |
| 43. | 3537.549 | -6.282 | .23E-05 | 0.00 | .70E-06 | -132.125 | .32E-05 | 87.695 | .868E+04 | 129.898 | 3498.901 | -6.206 | .01093 |
| 44. | 3530.801 | -6.200 | .23E-05 | 0.00 | .70E-06 | -133.366 | .32E-05 | 87.695 | .873E+04 | 131.010 | 3492.312 | -6.121 | .01090 |
| 45. | 3524.168 | -6.095 | .23E-05 | 0.00 | .71E-06 | -134.508 | .31E-05 | 87.695 | .877E+04 | 132.174 | 3485.832 | -6.023 | .01088 |
| 46. | 3517.674 | -5.967 | .23E-05 | 0.00 | .71E-06 | -135.550 | .31E-05 | 87.695 | .881E+04 | 133.389 | 3479.478 | -5.910 | .01086 |
| 47. | 3511.341 | -5.818 | .23E-05 | 0.00 | .71E-06 | -136.491 | .31E-05 | 87.696 | .885E+04 | 134.652 | 3473.264 | -5.784 | .01084 |
| 48. | 3505.192 | -5.648 | .23E-05 | 0.00 | .72E-06 | -137.332 | .31E-05 | 87.698 | .889E+04 | 135.961 | 3467.203 | -5.644 | .01084 |
| 49. | 3499.247 | -5.458 | .22E-05 | 0.00 | .73E-06 | -138.076 | .31E-05 | 87.702 | .893E+04 | 137.313 | 3461.308 | -5.491 | .01084 |

Y-CUT LITHIUM NIOBATE (KOROLYUK ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3493.527 | -5.249 | .22E-05 | 0.00 | .73E-06 | -138.726 | .31E-05 | 87.708 | .897E+04 | 138.703 | 3455.593 | -5.325 | .01086 |
| 51. | 3488.049 | -5.023 | .22E-05 | 0.00 | .74E-06 | -139.286 | .31E-05 | 87.716 | .902E+04 | 140.125 | 3450.070 | -5.146 | .01089 |
| 52. | 3482.830 | -4.780 | .22E-05 | 0.00 | .74E-06 | -139.760 | .31E-05 | 87.727 | .907E+04 | 141.576 | 3444.751 | -4.955 | .01093 |
| 53. | 3477.887 | -4.523 | .22E-05 | 0.00 | .75E-06 | -140.153 | .31E-05 | 87.741 | .913E+04 | 143.048 | 3439.649 | -4.752 | .01099 |
| 54. | 3473.232 | -4.251 | .22E-05 | 0.00 | .76E-06 | -140.469 | .31E-05 | 87.758 | .919E+04 | 144.535 | 3434.773 | -4.538 | .01107 |
| 55. | 3468.879 | -3.967 | .22E-05 | 0.00 | .76E-06 | -140.713 | .30E-05 | 87.778 | .925E+04 | 146.033 | 3430.135 | -4.313 | .01117 |
| 56. | 3464.839 | -3.672 | .22E-05 | 0.00 | .77E-06 | -140.890 | .30E-05 | 87.803 | .933E+04 | 147.534 | 3425.745 | -4.078 | .01128 |
| 57. | 3461.121 | -3.367 | .21E-05 | 0.00 | .77E-06 | -141.003 | .30E-05 | 87.832 | .940E+04 | 149.033 | 3421.613 | -3.833 | .01141 |
| 58. | 3457.733 | -3.054 | .21E-05 | 0.00 | .78E-06 | -141.058 | .30E-05 | 87.865 | .949E+04 | 150.526 | 3417.747 | -3.578 | .01156 |
| 59. | 3454.683 | -2.734 | .21E-05 | 0.00 | .79E-06 | -141.057 | .30E-05 | 87.902 | .958E+04 | 152.007 | 3414.155 | -3.315 | .01173 |
| 60. | 3451.977 | -2.407 | .21E-05 | 0.00 | .79E-06 | -141.004 | .30E-05 | 87.944 | .967E+04 | 153.472 | 3410.846 | -3.044 | .01192 |
| 61. | 3449.619 | -2.077 | .21E-05 | 0.00 | .80E-06 | -140.902 | .30E-05 | 87.991 | .977E+04 | 154.919 | 3407.826 | -2.766 | .01212 |
| 62. | 3447.612 | -1.743 | .21E-05 | 0.00 | .80E-06 | -140.753 | .29E-05 | 88.042 | .988E+04 | 156.344 | 3405.101 | -2.481 | .01233 |
| 63. | 3445.958 | -1.407 | .20E-05 | 0.00 | .81E-06 | -140.558 | .29E-05 | 88.097 | .999E+04 | 157.745 | 3402.677 | -2.191 | .01256 |
| 64. | 3444.658 | -1.069 | .20E-05 | 0.00 | .81E-06 | -140.319 | .29E-05 | 88.157 | .101E+05 | 159.120 | 3400.559 | -1.896 | .01280 |
| 65. | 3443.713 | -.732 | .20E-05 | 0.00 | .81E-06 | -140.036 | .29E-05 | 88.222 | .102E+05 | 160.470 | 3398.749 | -1.597 | .01306 |
| 66. | 3443.121 | -.397 | .20E-05 | 0.00 | .82E-06 | -139.710 | .29E-05 | 88.290 | .103E+05 | 161.793 | 3397.251 | -1.297 | .01332 |
| 67. | 3442.880 | -.064 | .20E-05 | 0.00 | .82E-06 | -139.341 | .28E-05 | 88.364 | .105E+05 | 163.091 | 3396.065 | -.995 | .01360 |
| 68. | 3442.986 | .266 | .20E-05 | 0.00 | .82E-06 | -138.926 | .28E-05 | 88.441 | .106E+05 | 164.362 | 3395.193 | -.693 | .01388 |
| 69. | 3443.435 | .590 | .20E-05 | 0.00 | .82E-06 | -138.464 | .28E-05 | 88.522 | .107E+05 | 165.610 | 3394.632 | -.392 | .01417 |
| 70. | 3444.221 | .908 | .19E-05 | 0.00 | .82E-06 | -137.953 | .28E-05 | 88.606 | .108E+05 | 166.834 | 3394.381 | -.095 | .01447 |
| 71. | 3445.337 | 1.218 | .19E-05 | 0.00 | .81E-06 | -137.391 | .28E-05 | 88.694 | .110E+05 | 168.037 | 3394.435 | .198 | .01477 |
| 72. | 3446.775 | 1.518 | .19E-05 | 0.00 | .81E-06 | -136.773 | .27E-05 | 88.786 | .111E+05 | 169.221 | 3394.788 | .483 | .01508 |
| 73. | 3448.522 | 1.807 | .19E-05 | 0.00 | .80E-06 | -136.096 | .27E-05 | 88.880 | .113E+05 | 170.386 | 3395.432 | .760 | .01540 |
| 74. | 3450.568 | 2.083 | .19E-05 | 0.00 | .79E-06 | -135.355 | .27E-05 | 88.977 | .114E+05 | 171.535 | 3396.356 | 1.025 | .01571 |
| 75. | 3452.897 | 2.342 | .19E-05 | 0.00 | .78E-06 | -134.544 | .27E-05 | 89.077 | .115E+05 | 172.670 | 3397.549 | 1.277 | .01603 |
| 76. | 3455.491 | 2.582 | .18E-05 | 0.00 | .77E-06 | -133.656 | .27E-05 | 89.179 | .117E+05 | 173.792 | 3398.993 | 1.510 | .01635 |
| 77. | 3458.329 | 2.799 | .18E-05 | 0.00 | .75E-06 | -132.687 | .27E-05 | 89.282 | .118E+05 | 174.902 | 3400.670 | 1.723 | .01667 |
| 78. | 3461.385 | 2.989 | .18E-05 | 0.00 | .73E-06 | -131.629 | .27E-05 | 89.387 | .120E+05 | 176.001 | 3402.556 | 1.911 | .01700 |
| 79. | 3464.628 | 3.147 | .18E-05 | 0.00 | .71E-06 | -130.475 | .27E-05 | 89.492 | .121E+05 | 177.088 | 3404.622 | 2.068 | .01732 |
| 80. | 3468.020 | 3.264 | .18E-05 | 0.00 | .68E-06 | -129.221 | .27E-05 | 89.598 | .123E+05 | 178.162 | 3406.834 | 2.189 | .01764 |
| 81. | 3471.515 | 3.335 | .18E-05 | 0.00 | .65E-06 | -127.863 | .27E-05 | 89.703 | .124E+05 | 179.220 | 3409.153 | 2.268 | .01796 |
| 82. | 3475.060 | 3.347 | .18E-05 | 0.00 | .62E-06 | -126.404 | .27E-05 | 89.807 | .126E+05 | -179.744 | 3411.529 | 2.296 | .01828 |
| 83. | 3478.585 | 3.290 | .18E-05 | 0.00 | .57E-06 | -124.853 | .27E-05 | 89.908 | .128E+05 | -178.739 | 3413.906 | 2.265 | .01859 |
| 84. | 3482.010 | 3.149 | .18E-05 | 0.00 | .52E-06 | -123.233 | .27E-05 | 90.004 | .129E+05 | -177.777 | 3416.217 | 2.166 | .01890 |
| 85. | 3485.237 | 2.909 | .18E-05 | 0.00 | .46E-06 | -121.586 | .27E-05 | 90.095 | .131E+05 | -176.877 | 3418.389 | 1.991 | .01918 |
| 86. | 3488.152 | 2.555 | .18E-05 | 0.00 | .39E-06 | -119.981 | .27E-05 | 90.176 | .132E+05 | -176.065 | 3420.336 | 1.734 | .01944 |
| 87. | 3490.626 | 2.077 | .18E-05 | 0.00 | .30E-06 | -118.516 | .27E-05 | 90.245 | .133E+05 | -175.373 | 3421.974 | 1.395 | .01967 |
| 88. | 3492.526 | 1.474 | .18E-05 | 0.00 | .21E-06 | -117.320 | .27E-05 | 90.298 | .134E+05 | -174.837 | 3423.218 | .980 | .01984 |
| 89. | 3493.726 | .767 | .19E-05 | 0.00 | .11E-06 | -116.529 | .28E-05 | 90.332 | .135E+05 | -174.497 | 3423.997 | .506 | .01996 |
| 90. | 3494.137 | 0.000 | .19E-05 | 0.00 | 0. | 0.000 | .28E-05 | 90.344 | .135E+05 | -174.380 | 3424.262 | 0.000 | .02000 |
| 91. | 3493.726 | -.767 | .19E-05 | 0.00 | .11E-06 | 63.471 | .28E-05 | 90.332 | .135E+05 | -174.497 | 3423.997 | -.506 | .01996 |
| 92. | 3492.526 | -1.474 | .18E-05 | 0.00 | .21E-06 | 62.680 | .27E-05 | 90.298 | .134E+05 | -174.837 | 3423.218 | -.980 | .01984 |
| 93. | 3490.626 | -2.077 | .18E-05 | 0.00 | .30E-06 | 61.484 | .27E-05 | 90.245 | .133E+05 | -175.373 | 3421.974 | -1.395 | .01967 |
| 94. | 3488.152 | -2.555 | .18E-05 | 0.00 | .39E-06 | 60.019 | .27E-05 | 90.176 | .132E+05 | -176.065 | 3420.336 | -1.734 | .01944 |
| 95. | 3485.237 | -2.909 | .18E-05 | 0.00 | .46E-06 | 58.414 | .27E-05 | 90.095 | .131E+05 | -176.877 | 3418.389 | -1.991 | .01918 |
| 96. | 3482.010 | -3.149 | .18E-05 | 0.00 | .52E-06 | 56.767 | .27E-05 | 90.004 | .129E+05 | -177.777 | 3416.217 | -2.166 | .01890 |
| 97. | 3478.585 | -3.290 | .18E-05 | 0.00 | .57E-06 | 55.147 | .27E-05 | 89.908 | .128E+05 | -178.739 | 3413.906 | -2.265 | .01859 |
| 98. | 3475.060 | -3.347 | .18E-05 | 0.00 | .62E-06 | 53.596 | .27E-05 | 89.807 | .126E+05 | -179.744 | 3411.529 | -2.296 | .01828 |
| 99. | 3471.515 | -3.335 | .18E-05 | 0.00 | .65E-06 | 52.137 | .27E-05 | 89.703 | .124E+05 | 179.220 | 3409.153 | -2.268 | .01796 |

Y-CUT LITHIUM NIOBATE (KOROLYUK ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3468.020 | -3.264 | .18E-05 | 0.00 | .68E-06 | 50.779 | .27E-05 | 89.598 | .123E+05 | 178.162 | 3406.834 | -2.189 | .01764 |
| 101. | 3464.628 | -3.147 | .18E-05 | 0.00 | .71E-06 | 49.525 | .27E-05 | 89.492 | .121E+05 | 177.088 | 3404.622 | -2.068 | .01732 |
| 102. | 3461.385 | -2.989 | .18E-05 | 0.00 | .73E-06 | 48.371 | .27E-05 | 89.387 | .120E+05 | 176.001 | 3402.556 | -1.911 | .01700 |
| 103. | 3458.329 | -2.799 | .18E-05 | 0.00 | .75E-06 | 47.313 | .27E-05 | 89.282 | .118E+05 | 174.902 | 3400.670 | -1.723 | .01667 |
| 104. | 3455.491 | -2.582 | .18E-05 | 0.00 | .77E-06 | 46.344 | .27E-05 | 89.179 | .117E+05 | 173.792 | 3398.993 | -1.510 | .01635 |
| 105. | 3452.897 | -2.342 | .19E-05 | 0.00 | .78E-06 | 45.456 | .27E-05 | 89.077 | .115E+05 | 172.670 | 3397.549 | -1.277 | .01603 |
| 106. | 3450.568 | -2.083 | .19E-05 | 0.00 | .79E-06 | 44.645 | .27E-05 | 88.977 | .114E+05 | 171.535 | 3396.356 | -1.025 | .01571 |
| 107. | 3448.522 | -1.807 | .19E-05 | 0.00 | .80E-06 | 43.904 | .27E-05 | 88.880 | .113E+05 | 170.386 | 3395.432 | -.760 | .01540 |
| 108. | 3446.775 | -1.518 | .19E-05 | 0.00 | .81E-06 | 43.227 | .27E-05 | 88.786 | .111E+05 | 169.221 | 3394.788 | -.483 | .01508 |
| 109. | 3445.337 | -1.218 | .19E-05 | 0.00 | .81E-06 | 42.609 | .28E-05 | 88.694 | .110E+05 | 168.037 | 3394.435 | -.198 | .01477 |
| 110. | 3444.221 | -.908 | .19E-05 | 0.00 | .82E-06 | 42.047 | .28E-05 | 88.606 | .108E+05 | 166.834 | 3394.381 | .095 | .01447 |
| 111. | 3443.435 | -.590 | .20E-05 | 0.00 | .82E-06 | 41.536 | .28E-05 | 88.522 | .107E+05 | 165.610 | 3394.632 | .392 | .01417 |
| 112. | 3442.986 | -.266 | .20E-05 | 0.00 | .82E-06 | 41.074 | .28E-05 | 88.441 | .106E+05 | 164.362 | 3395.193 | .693 | .01388 |
| 113. | 3442.880 | .064 | .20E-05 | 0.00 | .82E-06 | 40.659 | .28E-05 | 88.364 | .105E+05 | 163.091 | 3396.065 | .995 | .01360 |
| 114. | 3443.121 | .397 | .20E-05 | 0.00 | .82E-06 | 40.290 | .29E-05 | 88.290 | .103E+05 | 161.793 | 3397.251 | 1.297 | .01332 |
| 115. | 3443.713 | .732 | .20E-05 | 0.00 | .81E-06 | 39.964 | .29E-05 | 88.222 | .102E+05 | 160.470 | 3398.749 | 1.597 | .01306 |
| 116. | 3444.658 | 1.069 | .20E-05 | 0.00 | .81E-06 | 39.681 | .29E-05 | 88.157 | .101E+05 | 159.120 | 3400.559 | 1.896 | .01280 |
| 117. | 3445.958 | 1.407 | .20E-05 | 0.00 | .81E-06 | 39.442 | .29E-05 | 88.097 | .999E+04 | 157.745 | 3402.677 | 2.191 | .01256 |
| 118. | 3447.612 | 1.743 | .21E-05 | 0.00 | .80E-06 | 39.247 | .29E-05 | 88.042 | .988E+04 | 156.344 | 3405.101 | 2.481 | .01233 |
| 119. | 3449.619 | 2.077 | .21E-05 | 0.00 | .80E-06 | 39.098 | .30E-05 | 87.991 | .977E+04 | 154.919 | 3407.826 | 2.766 | .01212 |
| 120. | 3451.977 | 2.407 | .21E-05 | 0.00 | .79E-06 | 38.996 | .30E-05 | 87.944 | .967E+04 | 153.472 | 3410.846 | 3.044 | .01192 |
| 121. | 3454.683 | 2.734 | .21E-05 | 0.00 | .79E-06 | 38.943 | .30E-05 | 87.902 | .958E+04 | 152.007 | 3414.155 | 3.315 | .01173 |
| 122. | 3457.733 | 3.054 | .21E-05 | 0.00 | .78E-06 | 38.942 | .30E-05 | 87.865 | .949E+04 | 150.526 | 3417.747 | 3.578 | .01156 |
| 123. | 3461.121 | 3.367 | .21E-05 | 0.00 | .77E-06 | 38.997 | .30E-05 | 87.832 | .940E+04 | 149.033 | 3421.613 | 3.833 | .01141 |
| 124. | 3464.839 | 3.672 | .22E-05 | 0.00 | .77E-06 | 39.110 | .30E-05 | 87.803 | .933E+04 | 147.534 | 3425.745 | 4.078 | .01128 |
| 125. | 3468.879 | 3.967 | .22E-05 | 0.00 | .76E-06 | 39.287 | .30E-05 | 87.778 | .925E+04 | 146.033 | 3430.135 | 4.313 | .01117 |
| 126. | 3473.232 | 4.251 | .22E-05 | 0.00 | .76E-06 | 39.531 | .31E-05 | 87.758 | .919E+04 | 144.535 | 3434.773 | 4.538 | .01107 |
| 127. | 3477.887 | 4.523 | .22E-05 | 0.00 | .75E-06 | 39.847 | .31E-05 | 87.741 | .913E+04 | 143.048 | 3439.649 | 4.752 | .01099 |
| 128. | 3482.830 | 4.780 | .22E-05 | 0.00 | .74E-06 | 40.240 | .31E-05 | 87.727 | .907E+04 | 141.576 | 3444.751 | 4.955 | .01093 |
| 129. | 3488.049 | 5.023 | .22E-05 | 0.00 | .74E-06 | 40.714 | .31E-05 | 87.716 | .902E+04 | 140.125 | 3450.070 | 5.146 | .01089 |
| 130. | 3493.527 | 5.249 | .22E-05 | 0.00 | .73E-06 | 41.274 | .31E-05 | 87.708 | .897E+04 | 138.703 | 3455.593 | 5.325 | .01086 |
| 131. | 3499.247 | 5.458 | .22E-05 | 0.00 | .73E-06 | 41.924 | .31E-05 | 87.702 | .893E+04 | 137.313 | 3461.308 | 5.491 | .01084 |
| 132. | 3505.192 | 5.648 | .23E-05 | 0.00 | .72E-06 | 42.666 | .31E-05 | 87.698 | .889E+04 | 135.961 | 3467.203 | 5.644 | .01084 |
| 133. | 3511.341 | 5.818 | .23E-05 | 0.00 | .71E-06 | 43.509 | .31E-05 | 87.696 | .885E+04 | 134.652 | 3473.264 | 5.784 | .01084 |
| 134. | 3517.674 | 5.967 | .23E-05 | 0.00 | .71E-06 | 44.450 | .31E-05 | 87.695 | .881E+04 | 133.389 | 3479.478 | 5.910 | .01086 |
| 135. | 3524.168 | 6.095 | .23E-05 | 0.00 | .71E-06 | 45.492 | .31E-05 | 87.695 | .877E+04 | 132.174 | 3485.832 | 6.023 | .01088 |
| 136. | 3530.801 | 6.200 | .23E-05 | 0.00 | .70E-06 | 46.634 | .32E-05 | 87.695 | .873E+04 | 131.010 | 3492.312 | 6.121 | .01090 |
| 137. | 3537.549 | 6.282 | .23E-05 | 0.00 | .70E-06 | 47.875 | .32E-05 | 87.695 | .868E+04 | 129.898 | 3498.901 | 6.206 | .01093 |
| 138. | 3544.388 | 6.342 | .23E-05 | 0.00 | .69E-06 | 49.212 | .32E-05 | 87.696 | .863E+04 | 128.838 | 3505.587 | 6.275 | .01095 |
| 139. | 3551.292 | 6.378 | .23E-05 | 0.00 | .69E-06 | 50.640 | .32E-05 | 87.696 | .858E+04 | 127.829 | 3512.353 | 6.331 | .01096 |
| 140. | 3558.237 | 6.392 | .23E-05 | 0.00 | .69E-06 | 52.152 | .32E-05 | 87.695 | .851E+04 | 126.868 | 3519.184 | 6.371 | .01098 |
| 141. | 3565.197 | 6.383 | .23E-05 | 0.00 | .69E-06 | 53.738 | .32E-05 | 87.694 | .845E+04 | 125.955 | 3526.064 | 6.397 | .01098 |
| 142. | 3572.150 | 6.352 | .23E-05 | 0.00 | .69E-06 | 55.390 | .32E-05 | 87.693 | .837E+04 | 125.085 | 3532.977 | 6.408 | .01097 |
| 143. | 3579.071 | 6.301 | .23E-05 | 0.00 | .69E-06 | 57.093 | .32E-05 | 87.692 | .828E+04 | 124.255 | 3539.908 | 6.404 | .01094 |
| 144. | 3585.938 | 6.231 | .23E-05 | 0.00 | .69E-06 | 58.836 | .32E-05 | 87.690 | .818E+04 | 123.461 | 3546.841 | 6.385 | .01090 |
| 145. | 3592.731 | 6.142 | .23E-05 | 0.00 | .69E-06 | 60.604 | .32E-05 | 87.688 | .808E+04 | 122.696 | 3553.758 | 6.352 | .01085 |
| 146. | 3599.428 | 6.037 | .23E-05 | 0.00 | .70E-06 | 62.382 | .32E-05 | 87.687 | .796E+04 | 121.957 | 3560.645 | 6.305 | .01077 |
| 147. | 3606.013 | 5.918 | .23E-05 | 0.00 | .70E-06 | 64.155 | .32E-05 | 87.687 | .784E+04 | 121.238 | 3567.485 | 6.243 | .01068 |
| 148. | 3612.470 | 5.785 | .23E-05 | 0.00 | .70E-06 | 65.909 | .32E-05 | 87.688 | .771E+04 | 120.533 | 3574.262 | 6.168 | .01058 |
| 149. | 3618.785 | 5.642 | .23E-05 | 0.00 | .71E-06 | 67.632 | .32E-05 | 87.690 | .757E+04 | 119.836 | 3580.962 | 6.079 | .01045 |

Y-CUT LITHIUM NIOBATE (KOROLYUK ET AL)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3624.946 | 5.490 | .23E-05 | 0.00 | .71E-06 | 69.310 | .32E-05 | 87.695 | .742E+04 | 119.143 | 3587.569 | 5.977 | .01031 |
| 151. | 3630.944 | 5.330 | .23E-05 | 0.00 | .72E-06 | 70.934 | .32E-05 | 87.703 | .727E+04 | 118.447 | 3594.069 | 5.863 | .01016 |
| 152. | 3636.769 | 5.165 | .23E-05 | 0.00 | .72E-06 | 72.494 | .32E-05 | 87.715 | .711E+04 | 117.743 | 3600.448 | 5.738 | .00999 |
| 153. | 3642.417 | 4.995 | .23E-05 | 0.00 | .73E-06 | 73.984 | .32E-05 | 87.730 | .695E+04 | 117.027 | 3606.693 | 5.601 | .00981 |
| 154. | 3647.881 | 4.823 | .23E-05 | 0.00 | .73E-06 | 75.398 | .32E-05 | 87.750 | .679E+04 | 116.294 | 3612.791 | 5.454 | .00962 |
| 155. | 3653.159 | 4.648 | .23E-05 | 0.00 | .74E-06 | 76.733 | .32E-05 | 87.774 | .663E+04 | 115.541 | 3618.730 | 5.297 | .00942 |
| 156. | 3658.247 | 4.472 | .23E-05 | 0.00 | .74E-06 | 77.987 | .32E-05 | 87.804 | .646E+04 | 114.764 | 3624.499 | 5.131 | .00923 |
| 157. | 3663.145 | 4.295 | .23E-05 | 0.00 | .75E-06 | 79.158 | .32E-05 | 87.839 | .630E+04 | 113.960 | 3630.088 | 4.957 | .00902 |
| 158. | 3667.851 | 4.119 | .23E-05 | 0.00 | .75E-06 | 80.247 | .32E-05 | 87.880 | .614E+04 | 113.128 | 3635.487 | 4.776 | .00882 |
| 159. | 3672.364 | 3.942 | .23E-05 | 0.00 | .76E-06 | 81.256 | .32E-05 | 87.927 | .599E+04 | 112.267 | 3640.688 | 4.588 | .00863 |
| 160. | 3676.683 | 3.765 | .23E-05 | 0.00 | .76E-06 | 82.187 | .32E-05 | 87.980 | .584E+04 | 111.375 | 3645.682 | 4.394 | .00843 |
| 161. | 3680.809 | 3.588 | .22E-05 | 0.00 | .76E-06 | 83.042 | .32E-05 | 88.038 | .570E+04 | 110.453 | 3650.463 | 4.194 | .00824 |
| 162. | 3684.740 | 3.411 | .22E-05 | 0.00 | .77E-06 | 83.825 | .32E-05 | 88.103 | .556E+04 | 109.503 | 3655.025 | 3.990 | .00806 |
| 163. | 3688.475 | 3.233 | .22E-05 | 0.00 | .77E-06 | 84.539 | .31E-05 | 88.173 | .543E+04 | 108.525 | 3659.360 | 3.781 | .00789 |
| 164. | 3692.013 | 3.055 | .22E-05 | 0.00 | .77E-06 | 85.188 | .31E-05 | 88.250 | .531E+04 | 107.521 | 3663.466 | 3.570 | .00773 |
| 165. | 3695.353 | 2.876 | .22E-05 | 0.00 | .77E-06 | 85.776 | .31E-05 | 88.331 | .519E+04 | 106.494 | 3667.336 | 3.355 | .00758 |
| 166. | 3698.493 | 2.696 | .22E-05 | 0.00 | .77E-06 | 86.307 | .31E-05 | 88.418 | .509E+04 | 105.446 | 3670.969 | 3.138 | .00744 |
| 167. | 3701.431 | 2.514 | .22E-05 | 0.00 | .78E-06 | 86.785 | .31E-05 | 88.510 | .499E+04 | 104.381 | 3674.359 | 2.918 | .00731 |
| 168. | 3704.165 | 2.330 | .22E-05 | 0.00 | .78E-06 | 87.215 | .31E-05 | 88.606 | .490E+04 | 103.301 | 3677.506 | 2.697 | .00720 |
| 169. | 3706.692 | 2.145 | .22E-05 | 0.00 | .78E-06 | 87.600 | .31E-05 | 88.707 | .481E+04 | 102.209 | 3680.406 | 2.475 | .00709 |
| 170. | 3709.010 | 1.958 | .22E-05 | 0.00 | .78E-06 | 87.945 | .31E-05 | 88.812 | .474E+04 | 101.108 | 3683.058 | 2.251 | .00700 |
| 171. | 3711.118 | 1.769 | .22E-05 | 0.00 | .78E-06 | 88.253 | .31E-05 | 88.920 | .467E+04 | 100.001 | 3685.460 | 2.027 | .00691 |
| 172. | 3713.011 | 1.578 | .22E-05 | 0.00 | .78E-06 | 88.528 | .31E-05 | 89.032 | .461E+04 | 98.890 | 3687.612 | 1.803 | .00684 |
| 173. | 3714.688 | 1.386 | .22E-05 | 0.00 | .78E-06 | 88.774 | .31E-05 | 89.147 | .456E+04 | 97.777 | 3689.512 | 1.578 | .00678 |
| 174. | 3716.147 | 1.191 | .22E-05 | 0.00 | .78E-06 | 88.996 | .31E-05 | 89.264 | .452E+04 | 96.663 | 3691.159 | 1.353 | .00672 |
| 175. | 3717.385 | .995 | .22E-05 | 0.00 | .78E-06 | 89.195 | .31E-05 | 89.383 | .448E+04 | 95.550 | 3692.553 | 1.127 | .00668 |
| 176. | 3718.400 | .798 | .22E-05 | 0.00 | .78E-06 | 89.377 | .31E-05 | 89.504 | .445E+04 | 94.438 | 3693.695 | .902 | .00664 |
| 177. | 3719.192 | .599 | .22E-05 | 0.00 | .78E-06 | 89.545 | .31E-05 | 89.627 | .443E+04 | 93.327 | 3694.583 | .676 | .00662 |
| 178. | 3719.758 | .400 | .22E-05 | 0.00 | .78E-06 | 89.703 | .31E-05 | 89.751 | .441E+04 | 92.217 | 3695.217 | .451 | .00660 |
| 179. | 3720.099 | .200 | .22E-05 | 0.00 | .78E-06 | 89.853 | .31E-05 | 89.875 | .440E+04 | 91.108 | 3695.598 | .225 | .00659 |
| 180. | 3720.212 | 0.000 | .22E-05 | 0.00 | .78E-06 | 90.000 | .31E-05 | 90.000 | .440E+04 | 90.000 | 3695.724 | .000 | .00658 |

Y-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3155.712 | 0.000 | .20E-05 | 0.00 | .77E-06 | -90.000 | .29E-05 | 90.000 | .214E+04 | 90.000 | 1183.843 | -180.000 | .62486 |
| 1. | 3155.791 | .164 | .20E-05 | 0.00 | .77E-06 | -90.559 | .29E-05 | 90.213 | .214E+04 | 92.240 | 3723.161 | 0.000 | .99999 |
| 2. | 3156.027 | .327 | .20E-05 | 0.00 | .76E-06 | -91.120 | .29E-05 | 90.425 | .215E+04 | 94.470 | 5550.480 | 0.000 | .99999 |
| 3. | 3156.420 | .490 | .20E-05 | 0.00 | .76E-06 | -91.686 | .29E-05 | 90.637 | .217E+04 | 96.678 | 6665.799 | 0.000 | .99999 |
| 4. | 3156.968 | .650 | .20E-05 | 0.00 | .76E-06 | -92.260 | .29E-05 | 90.850 | .218E+04 | 98.855 | 7069.118 | 0.000 | .99999 |
| 5. | 3157.670 | .809 | .20E-05 | 0.00 | .76E-06 | -92.845 | .29E-05 | 91.062 | .221E+04 | 100.991 | 6760.436 | 0.000 | .99999 |
| 6. | 3158.524 | .966 | .20E-05 | 0.00 | .76E-06 | -93.444 | .29E-05 | 91.274 | .223E+04 | 103.077 | -0.000 | -0.000 | *.00000 |
| 7. | 3159.527 | 1.119 | .20E-05 | 0.00 | .76E-06 | -94.060 | .29E-05 | 91.485 | .227E+04 | 105.106 | -0.000 | -0.000 | *.00000 |
| 8. | 3160.677 | 1.268 | .20E-05 | 0.00 | .76E-06 | -94.697 | .29E-05 | 91.697 | .230E+04 | 107.069 | -0.000 | -0.000 | *.00000 |
| 9. | 3161.969 | 1.414 | .20E-05 | 0.00 | .75E-06 | -95.358 | .29E-05 | 91.908 | .235E+04 | 108.962 | -0.000 | -0.000 | *.00000 |
| 10. | 3163.399 | 1.554 | .20E-05 | 0.00 | .75E-06 | -96.048 | .29E-05 | 92.119 | .239E+04 | 110.779 | -0.000 | -0.000 | *.00000 |
| 11. | 3164.964 | 1.690 | .20E-05 | 0.00 | .75E-06 | -96.771 | .29E-05 | 92.330 | .245E+04 | 112.517 | -0.000 | -0.000 | *.00000 |
| 12. | 3166.656 | 1.819 | .20E-05 | 0.00 | .75E-06 | -97.532 | .29E-05 | 92.541 | .250E+04 | 114.170 | -0.000 | -0.000 | *.00000 |
| 13. | 3168.471 | 1.941 | .20E-05 | 0.00 | .74E-06 | -98.339 | .29E-05 | 92.751 | .256E+04 | 115.738 | -0.000 | -0.000 | *.00000 |
| 14. | 3170.401 | 2.055 | .20E-05 | 0.00 | .74E-06 | -99.196 | .29E-05 | 92.961 | .263E+04 | 117.219 | -0.000 | -0.000 | *.00000 |
| 15. | 3172.440 | 2.161 | .20E-05 | 0.00 | .73E-06 | -100.112 | .29E-05 | 93.171 | .270E+04 | 118.610 | -0.000 | -0.000 | *.00000 |
| 16. | 3174.578 | 2.258 | .20E-05 | 0.00 | .73E-06 | -101.096 | .29E-05 | 93.381 | .277E+04 | 119.912 | -0.000 | -0.000 | *.00000 |
| 17. | 3176.806 | 2.344 | .20E-05 | 0.00 | .72E-06 | -102.157 | .29E-05 | 93.591 | .285E+04 | 121.123 | -0.000 | -0.000 | *.00000 |
| 18. | 3179.114 | 2.419 | .20E-05 | 0.00 | .71E-06 | -103.307 | .29E-05 | 93.801 | .294E+04 | 122.245 | -0.000 | -0.000 | *.00000 |
| 19. | 3181.491 | 2.482 | .20E-05 | 0.00 | .71E-06 | -104.559 | .29E-05 | 94.012 | .302E+04 | 123.276 | -0.000 | -0.000 | *.00000 |
| 20. | 3183.923 | 2.530 | .20E-05 | 0.00 | .70E-06 | -105.927 | .29E-05 | 94.222 | .311E+04 | 124.219 | -0.000 | -0.000 | *.00000 |
| 21. | 3186.397 | 2.563 | .20E-05 | 0.00 | .69E-06 | -107.429 | .29E-05 | 94.433 | .321E+04 | 125.072 | -0.000 | -0.000 | *.00000 |
| 22. | 3188.897 | 2.579 | .20E-05 | 0.00 | .69E-06 | -109.084 | .29E-05 | 94.644 | .331E+04 | 125.838 | -0.000 | -0.000 | *.00000 |
| 23. | 3191.406 | 2.577 | .20E-05 | 0.00 | .68E-06 | -110.915 | .29E-05 | 94.855 | .341E+04 | 126.516 | -0.000 | -0.000 | *.00000 |
| 24. | 3193.905 | 2.554 | .20E-05 | 0.00 | .67E-06 | -112.947 | .29E-05 | 95.067 | .351E+04 | 127.109 | -0.000 | -0.000 | *.00000 |
| 25. | 3196.372 | 2.510 | .20E-05 | 0.00 | .66E-06 | -115.209 | .29E-05 | 95.279 | .362E+04 | 127.617 | -0.000 | -0.000 | *.00000 |
| 26. | 3198.787 | 2.441 | .21E-05 | 0.00 | .65E-06 | -117.733 | .29E-05 | 95.492 | .373E+04 | 128.042 | -0.000 | -0.000 | *.00000 |
| 27. | 3201.124 | 2.346 | .21E-05 | 0.00 | .63E-06 | -120.553 | .29E-05 | 95.704 | .384E+04 | 128.387 | -0.000 | -0.000 | *.00000 |
| 28. | 3203.357 | 2.224 | .21E-05 | 0.00 | .62E-06 | -123.706 | .29E-05 | 95.916 | .395E+04 | 128.653 | -0.000 | -0.000 | *.00000 |
| 29. | 3205.458 | 2.074 | .21E-05 | 0.00 | .61E-06 | -127.227 | .29E-05 | 96.126 | .406E+04 | 128.844 | -0.000 | -0.000 | *.00000 |
| 30. | 3207.398 | 1.893 | .21E-05 | 0.00 | .60E-06 | -131.148 | .29E-05 | 96.335 | .417E+04 | 128.965 | -0.000 | -0.000 | *.00000 |
| 31. | 3209.149 | 1.683 | .21E-05 | 0.00 | .60E-06 | -135.493 | .30E-05 | 96.541 | .427E+04 | 129.021 | -0.000 | -0.000 | *.00000 |
| 32. | 3210.681 | 1.445 | .21E-05 | 0.00 | .59E-06 | -140.269 | .30E-05 | 96.743 | .437E+04 | 129.018 | -0.000 | -0.000 | *.00000 |
| 33. | 3211.967 | 1.180 | .21E-05 | 0.00 | .58E-06 | -145.461 | .30E-05 | 96.939 | .446E+04 | 128.965 | -0.000 | -0.000 | *.00000 |
| 34. | 3212.983 | .894 | .21E-05 | 0.00 | .58E-06 | -151.022 | .30E-05 | 97.126 | .454E+04 | 128.872 | -0.000 | -0.000 | *.00000 |
| 35. | 3213.711 | .592 | .21E-05 | 0.00 | .58E-06 | -156.873 | .30E-05 | 97.304 | .461E+04 | 128.752 | -0.000 | -0.000 | *.00000 |
| 36. | 3214.139 | .282 | .21E-05 | 0.00 | .59E-06 | -162.905 | .30E-05 | 97.469 | .466E+04 | 128.619 | -0.000 | -0.000 | *.00000 |
| 37. | 3214.263 | -.026 | .21E-05 | 0.00 | .60E-06 | -168.988 | .30E-05 | 97.617 | .469E+04 | 128.491 | -0.000 | -0.000 | *.00000 |
| 38. | 3214.091 | -.322 | .21E-05 | 0.00 | .61E-06 | -174.989 | .30E-05 | 97.748 | .471E+04 | 128.388 | -0.000 | -0.000 | *.00000 |
| 39. | 3213.640 | -.595 | .21E-05 | 0.00 | .63E-06 | 179.209 | .30E-05 | 97.857 | .471E+04 | 128.329 | -0.000 | -0.000 | *.00000 |
| 40. | 3212.938 | -.833 | .21E-05 | 0.00 | .65E-06 | 173.697 | .30E-05 | 97.942 | .468E+04 | 128.340 | -0.000 | -0.000 | *.00000 |
| 41. | 3212.023 | -1.029 | .20E-05 | 0.00 | .68E-06 | 168.531 | .29E-05 | 98.001 | .464E+04 | 128.444 | -0.000 | -0.000 | *.00000 |
| 42. | 3210.940 | -1.176 | .20E-05 | 0.00 | .70E-06 | 163.738 | .29E-05 | 98.032 | .458E+04 | 128.666 | -0.000 | -0.000 | *.00000 |
| 43. | 3209.741 | -1.268 | .20E-05 | 0.00 | .73E-06 | 159.316 | .29E-05 | 98.035 | .450E+04 | 129.034 | -0.000 | -0.000 | *.00000 |
| 44. | 3208.478 | -1.306 | .20E-05 | 0.00 | .75E-06 | 155.249 | .29E-05 | 98.009 | .441E+04 | 129.573 | -0.000 | -0.000 | *.00000 |
| 45. | 3207.205 | -1.289 | .20E-05 | 0.00 | .77E-06 | 151.510 | .29E-05 | 97.954 | .431E+04 | 130.310 | -0.000 | -0.000 | *.00000 |
| 46. | 3205.975 | -1.221 | .20E-05 | 0.00 | .79E-06 | 148.065 | .29E-05 | 97.872 | .420E+04 | 131.268 | -0.000 | -0.000 | *.00000 |
| 47. | 3204.835 | -1.106 | .20E-05 | 0.00 | .81E-06 | 144.882 | .29E-05 | 97.763 | .409E+04 | 132.470 | -0.000 | -0.000 | *.00000 |
| 48. | 3203.829 | -.950 | .20E-05 | 0.00 | .82E-06 | 141.931 | .29E-05 | 97.630 | .398E+04 | 133.935 | -0.000 | -0.000 | *.00000 |
| 49. | 3202.992 | -.759 | .19E-05 | 0.00 | .84E-06 | 139.183 | .29E-05 | 97.475 | .387E+04 | 135.674 | -0.000 | -0.000 | *.00000 |

Y-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3202.356 | -.541 | .19E-05 | 0.00 | .85E-06 | 136.613 | .28E-05 | 97.301 | .377E+04 | 137.694 | -0.000 | -0.000 | *.00000 |
| 51. | 3201.945 | -.300 | .19E-05 | 0.00 | .86E-06 | 134.201 | .28E-05 | 97.110 | .368E+04 | 139.989 | -0.000 | -0.000 | *.00000 |
| 52. | 3201.776 | -.044 | .19E-05 | 0.00 | .86E-06 | 131.929 | .28E-05 | 96.905 | .361E+04 | 142.541 | -0.000 | -0.000 | *.00000 |
| 53. | 3201.862 | .222 | .19E-05 | 0.00 | .86E-06 | 129.783 | .28E-05 | 96.689 | .355E+04 | 145.318 | -0.000 | -0.000 | *.00000 |
| 54. | 3202.210 | .492 | .19E-05 | 0.00 | .86E-06 | 127.749 | .28E-05 | 96.465 | .351E+04 | 148.274 | -0.000 | -0.000 | *.00000 |
| 55. | 3202.822 | .762 | .19E-05 | 0.00 | .86E-06 | 125.818 | .28E-05 | 96.234 | .350E+04 | 151.353 | -0.000 | -0.000 | *.00000 |
| 56. | 3203.696 | 1.027 | .19E-05 | 0.00 | .86E-06 | 123.982 | .28E-05 | 96.001 | .350E+04 | 154.487 | -0.000 | -0.000 | *.00000 |
| 57. | 3204.825 | 1.285 | .19E-05 | 0.00 | .85E-06 | 122.233 | .28E-05 | 95.766 | .353E+04 | 157.610 | -0.000 | -0.000 | *.00000 |
| 58. | 3206.201 | 1.530 | .19E-05 | 0.00 | .84E-06 | 120.567 | .28E-05 | 95.533 | .358E+04 | 160.655 | -0.000 | -0.000 | *.00000 |
| 59. | 3207.810 | 1.761 | .19E-05 | 0.00 | .83E-06 | 118.977 | .28E-05 | 95.302 | .365E+04 | 163.566 | -0.000 | -0.000 | *.00000 |
| 60. | 3209.639 | 1.976 | .19E-05 | 0.00 | .82E-06 | 117.462 | .28E-05 | 95.077 | .374E+04 | 166.299 | -0.000 | -0.000 | *.00000 |
| 61. | 3211.671 | 2.173 | .19E-05 | 0.00 | .80E-06 | 116.017 | .28E-05 | 94.857 | .384E+04 | 168.824 | -0.000 | -0.000 | *.00000 |
| 62. | 3213.887 | 2.350 | .19E-05 | 0.00 | .79E-06 | 114.640 | .28E-05 | 94.646 | .396E+04 | 171.123 | -0.000 | -0.000 | *.00000 |
| 63. | 3216.268 | 2.506 | .19E-05 | 0.00 | .77E-06 | 113.327 | .28E-05 | 94.443 | .410E+04 | 173.189 | -0.000 | -0.000 | *.00000 |
| 64. | 3218.793 | 2.640 | .19E-05 | 0.00 | .75E-06 | 112.079 | .28E-05 | 94.249 | .424E+04 | 175.027 | -0.000 | -0.000 | *.00000 |
| 65. | 3221.442 | 2.752 | .19E-05 | 0.00 | .73E-06 | 110.891 | .28E-05 | 94.065 | .439E+04 | 176.647 | -0.000 | -0.000 | *.00000 |
| 66. | 3224.192 | 2.842 | .19E-05 | 0.00 | .71E-06 | 109.763 | .28E-05 | 93.892 | .455E+04 | 178.063 | -0.000 | -0.000 | *.00000 |
| 67. | 3227.022 | 2.910 | .19E-05 | 0.00 | .69E-06 | 108.693 | .28E-05 | 93.730 | .471E+04 | 179.291 | -0.000 | -0.000 | *.00000 |
| 68. | 3229.910 | 2.955 | .19E-05 | 0.00 | .67E-06 | 107.680 | .28E-05 | 93.578 | .488E+04 | -179.651 | -0.000 | -0.000 | *.00000 |
| 69. | 3232.835 | 2.979 | .19E-05 | 0.00 | .65E-06 | 106.722 | .28E-05 | 93.437 | .505E+04 | -178.744 | -0.000 | -0.000 | *.00000 |
| 70. | 3235.776 | 2.981 | .20E-05 | 0.00 | .62E-06 | 105.819 | .28E-05 | 93.307 | .521E+04 | -177.972 | -0.000 | -0.000 | *.00000 |
| 71. | 3238.711 | 2.963 | .20E-05 | 0.00 | .59E-06 | 104.968 | .28E-05 | 93.188 | .538E+04 | -177.318 | -0.000 | -0.000 | *.00000 |
| 72. | 3241.621 | 2.925 | .20E-05 | 0.00 | .57E-06 | 104.168 | .28E-05 | 93.079 | .554E+04 | -176.767 | -0.000 | -0.000 | *.00000 |
| 73. | 3244.486 | 2.868 | .20E-05 | 0.00 | .54E-06 | 103.419 | .29E-05 | 92.980 | .570E+04 | -176.306 | -0.000 | -0.000 | *.00000 |
| 74. | 3247.288 | 2.793 | .20E-05 | 0.00 | .51E-06 | 102.720 | .29E-05 | 92.890 | .585E+04 | -175.922 | -0.000 | -0.000 | *.00000 |
| 75. | 3250.009 | 2.701 | .20E-05 | 0.00 | .48E-06 | 102.069 | .29E-05 | 92.809 | .600E+04 | -175.605 | -0.000 | -0.000 | *.00000 |
| 76. | 3252.634 | 2.592 | .20E-05 | 0.00 | .45E-06 | 101.465 | .29E-05 | 92.736 | .614E+04 | -175.345 | -0.000 | -0.000 | *.00000 |
| 77. | 3255.145 | 2.469 | .20E-05 | 0.00 | .42E-06 | 100.907 | .29E-05 | 92.671 | .627E+04 | -175.133 | -0.000 | -0.000 | *.00000 |
| 78. | 3257.529 | 2.332 | .20E-05 | 0.00 | .39E-06 | 100.395 | .29E-05 | 92.614 | .640E+04 | -174.962 | -0.000 | -0.000 | *.00000 |
| 79. | 3259.772 | 2.182 | .20E-05 | 0.00 | .36E-06 | 99.927 | .29E-05 | 92.563 | .652E+04 | -174.826 | -0.000 | -0.000 | *.00000 |
| 80. | 3261.861 | 2.021 | .20E-05 | 0.00 | .33E-06 | 99.502 | .29E-05 | 92.518 | .663E+04 | -174.717 | -0.000 | -0.000 | *.00000 |
| 81. | 3263.786 | 1.849 | .20E-05 | 0.00 | .30E-06 | 99.121 | .29E-05 | 92.480 | .673E+04 | -174.633 | -0.000 | -0.000 | *.00000 |
| 82. | 3265.535 | 1.667 | .20E-05 | 0.00 | .26E-06 | 98.781 | .29E-05 | 92.447 | .682E+04 | -174.568 | -0.000 | -0.000 | *.00000 |
| 83. | 3267.100 | 1.477 | .20E-05 | 0.00 | .23E-06 | 98.483 | .29E-05 | 92.418 | .690E+04 | -174.518 | -0.000 | -0.000 | *.00000 |
| 84. | 3268.473 | 1.280 | .20E-05 | 0.00 | .20E-06 | 98.226 | .29E-05 | 92.395 | .697E+04 | -174.481 | -0.000 | -0.000 | *.00000 |
| 85. | 3269.647 | 1.076 | .20E-05 | 0.00 | .17E-06 | 98.010 | .29E-05 | 92.375 | .703E+04 | -174.454 | -0.000 | -0.000 | *.00000 |
| 86. | 3270.615 | .867 | .20E-05 | 0.00 | .13E-06 | 97.833 | .29E-05 | 92.360 | .708E+04 | -174.434 | -0.000 | -0.000 | *.00000 |
| 87. | 3271.373 | .654 | .20E-05 | 0.00 | .10E-06 | 97.696 | .29E-05 | 92.348 | .712E+04 | -174.421 | -0.000 | -0.000 | *.00000 |
| 88. | 3271.917 | .438 | .20E-05 | 0.00 | .67E-07 | 97.598 | .29E-05 | 92.340 | .714E+04 | -174.412 | -0.000 | -0.000 | *.00000 |
| 89. | 3272.244 | .219 | .20E-05 | 0.00 | .33E-07 | 97.540 | .29E-05 | 92.335 | .716E+04 | -174.407 | -0.000 | -0.000 | *.00000 |
| 90. | 3272.354 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .29E-05 | 92.333 | .717E+04 | -174.406 | -0.000 | -0.000 | *.00000 |
| 91. | 3272.244 | -.219 | .20E-05 | 0.00 | .33E-07 | -82.460 | .29E-05 | 92.335 | .716E+04 | -174.407 | -0.000 | -0.000 | *.00000 |
| 92. | 3271.917 | -.438 | .20E-05 | 0.00 | .67E-07 | -82.402 | .29E-05 | 92.340 | .714E+04 | -174.412 | -0.000 | -0.000 | *.00000 |
| 93. | 3271.373 | -.654 | .20E-05 | 0.00 | .10E-06 | -82.304 | .29E-05 | 92.348 | .712E+04 | -174.421 | -0.000 | -0.000 | *.00000 |
| 94. | 3270.615 | -.867 | .20E-05 | 0.00 | .13E-06 | -82.167 | .29E-05 | 92.360 | .708E+04 | -174.434 | -0.000 | -0.000 | *.00000 |
| 95. | 3269.647 | -1.076 | .20E-05 | 0.00 | .17E-06 | -81.990 | .29E-05 | 92.375 | .703E+04 | -174.454 | -0.000 | -0.000 | *.00000 |
| 96. | 3268.473 | -1.280 | .20E-05 | 0.00 | .20E-06 | -81.774 | .29E-05 | 92.395 | .697E+04 | -174.481 | -0.000 | -0.000 | *.00000 |
| 97. | 3267.100 | -1.477 | .20E-05 | 0.00 | .23E-06 | -81.517 | .29E-05 | 92.418 | .690E+04 | -174.518 | -0.000 | -0.000 | *.00000 |
| 98. | 3265.535 | -1.667 | .20E-05 | 0.00 | .26E-06 | -81.219 | .29E-05 | 92.447 | .682E+04 | -174.568 | -0.000 | -0.000 | *.00000 |
| 99. | 3263.786 | -1.849 | .20E-05 | 0.00 | .30E-06 | -80.879 | .29E-05 | 92.480 | .673E+04 | -174.633 | -0.000 | -0.000 | *.00000 |

Y-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3261.861 | -2.021 | .20E-05 | 0.00 | .33E-06 | -80.498 | .29E-05 | 92.518 | .663E+04 | -174.717 | -0.000 | -0.000 | *.00000 |
| 101. | 3259.772 | -2.182 | .20E-05 | 0.00 | .36E-06 | -80.073 | .29E-05 | 92.563 | .652E+04 | -174.826 | -0.000 | -0.000 | *.00000 |
| 102. | 3257.529 | -2.332 | .20E-05 | 0.00 | .39E-06 | -79.605 | .29E-05 | 92.614 | .640E+04 | -174.962 | -0.000 | -0.000 | *.00000 |
| 103. | 3255.145 | -2.469 | .20E-05 | 0.00 | .42E-06 | -79.093 | .29E-05 | 92.671 | .627E+04 | -175.133 | -0.000 | -0.000 | *.00000 |
| 104. | 3252.634 | -2.592 | .20E-05 | 0.00 | .45E-06 | -78.535 | .29E-05 | 92.736 | .614E+04 | -175.345 | -0.000 | -0.000 | *.00000 |
| 105. | 3250.009 | -2.701 | .20E-05 | 0.00 | .48E-06 | -77.931 | .29E-05 | 92.809 | .600E+04 | -175.605 | -0.000 | -0.000 | *.00000 |
| 106. | 3247.288 | -2.793 | .20E-05 | 0.00 | .51E-06 | -77.280 | .29E-05 | 92.890 | .585E+04 | -175.922 | -0.000 | -0.000 | *.00000 |
| 107. | 3244.486 | -2.868 | .20E-05 | 0.00 | .54E-06 | -76.581 | .29E-05 | 92.980 | .570E+04 | -176.306 | -0.000 | -0.000 | *.00000 |
| 108. | 3241.621 | -2.925 | .20E-05 | 0.00 | .57E-06 | -75.832 | .28E-05 | 93.079 | .554E+04 | -176.767 | -0.000 | -0.000 | *.00000 |
| 109. | 3238.711 | -2.963 | .20E-05 | 0.00 | .59E-06 | -75.032 | .28E-05 | 93.188 | .538E+04 | -177.318 | -0.000 | -0.000 | *.00000 |
| 110. | 3235.776 | -2.981 | .20E-05 | 0.00 | .62E-06 | -74.181 | .28E-05 | 93.307 | .521E+04 | -177.972 | -0.000 | -0.000 | *.00000 |
| 111. | 3232.835 | -2.979 | .19E-05 | 0.00 | .65E-06 | -73.278 | .28E-05 | 93.437 | .505E+04 | -178.744 | -0.000 | -0.000 | *.00000 |
| 112. | 3229.910 | -2.955 | .19E-05 | 0.00 | .67E-06 | -72.320 | .28E-05 | 93.578 | .488E+04 | -179.651 | -0.000 | -0.000 | *.00000 |
| 113. | 3227.022 | -2.910 | .19E-05 | 0.00 | .69E-06 | -71.307 | .28E-05 | 93.730 | .471E+04 | 179.291 | -0.000 | -0.000 | *.00000 |
| 114. | 3224.192 | -2.842 | .19E-05 | 0.00 | .71E-06 | -70.237 | .28E-05 | 93.892 | .455E+04 | 178.063 | -0.000 | -0.000 | *.00000 |
| 115. | 3221.442 | -2.752 | .19E-05 | 0.00 | .73E-06 | -69.109 | .28E-05 | 94.065 | .439E+04 | 176.647 | -0.000 | -0.000 | *.00000 |
| 116. | 3218.793 | -2.640 | .19E-05 | 0.00 | .75E-06 | -67.921 | .28E-05 | 94.249 | .424E+04 | 175.027 | -0.000 | -0.000 | *.00000 |
| 117. | 3216.268 | -2.506 | .19E-05 | 0.00 | .77E-06 | -66.673 | .28E-05 | 94.443 | .410E+04 | 173.189 | -0.000 | -0.000 | *.00000 |
| 118. | 3213.887 | -2.350 | .19E-05 | 0.00 | .79E-06 | -65.360 | .28E-05 | 94.646 | .396E+04 | 171.123 | -0.000 | -0.000 | *.00000 |
| 119. | 3211.671 | -2.173 | .19E-05 | 0.00 | .80E-06 | -63.983 | .28E-05 | 94.857 | .384E+04 | 168.824 | -0.000 | -0.000 | *.00000 |
| 120. | 3209.639 | -1.976 | .19E-05 | 0.00 | .82E-06 | -62.538 | .28E-05 | 95.077 | .374E+04 | 166.299 | -0.000 | -0.000 | *.00000 |
| 121. | 3207.810 | -1.761 | .19E-05 | 0.00 | .83E-06 | -61.023 | .28E-05 | 95.302 | .365E+04 | 163.566 | -0.000 | -0.000 | *.00000 |
| 122. | 3206.201 | -1.530 | .19E-05 | 0.00 | .84E-06 | -59.433 | .28E-05 | 95.533 | .358E+04 | 160.655 | -0.000 | -0.000 | *.00000 |
| 123. | 3204.825 | -1.285 | .19E-05 | 0.00 | .85E-06 | -57.767 | .28E-05 | 95.766 | .353E+04 | 157.610 | -0.000 | -0.000 | *.00000 |
| 124. | 3203.696 | -1.027 | .19E-05 | 0.00 | .86E-06 | -56.018 | .28E-05 | 96.001 | .350E+04 | 154.487 | -0.000 | -0.000 | *.00000 |
| 125. | 3202.822 | -.762 | .19E-05 | 0.00 | .86E-06 | -54.182 | .28E-05 | 96.234 | .350E+04 | 151.353 | -0.000 | -0.000 | *.00000 |
| 126. | 3202.210 | -.492 | .19E-05 | 0.00 | .86E-06 | -52.251 | .28E-05 | 96.465 | .351E+04 | 148.274 | -0.000 | -0.000 | *.00000 |
| 127. | 3201.862 | -.222 | .19E-05 | 0.00 | .86E-06 | -50.217 | .28E-05 | 96.689 | .355E+04 | 145.318 | -0.000 | -0.000 | *.00000 |
| 128. | 3201.776 | .044 | .19E-05 | 0.00 | .86E-06 | -48.071 | .28E-05 | 96.905 | .361E+04 | 142.541 | -0.000 | -0.000 | *.00000 |
| 129. | 3201.945 | .300 | .19E-05 | 0.00 | .86E-06 | -45.799 | .28E-05 | 97.110 | .368E+04 | 139.989 | -0.000 | -0.000 | *.00000 |
| 130. | 3202.356 | .541 | .19E-05 | 0.00 | .85E-06 | -43.387 | .28E-05 | 97.301 | .377E+04 | 137.694 | -0.000 | -0.000 | *.00000 |
| 131. | 3202.992 | .759 | .19E-05 | 0.00 | .84E-06 | -40.817 | .29E-05 | 97.475 | .387E+04 | 135.674 | -0.000 | -0.000 | *.00000 |
| 132. | 3203.829 | .950 | .20E-05 | 0.00 | .82E-06 | -38.069 | .29E-05 | 97.630 | .398E+04 | 133.935 | -0.000 | -0.000 | *.00000 |
| 133. | 3204.835 | 1.106 | .20E-05 | 0.00 | .81E-06 | -35.118 | .29E-05 | 97.763 | .409E+04 | 132.470 | -0.000 | -0.000 | *.00000 |
| 134. | 3205.975 | 1.221 | .20E-05 | 0.00 | .79E-06 | -31.935 | .29E-05 | 97.872 | .420E+04 | 131.268 | -0.000 | -0.000 | *.00000 |
| 135. | 3207.205 | 1.289 | .20E-05 | 0.00 | .77E-06 | -28.490 | .29E-05 | 97.954 | .431E+04 | 130.310 | -0.000 | -0.000 | *.00000 |
| 136. | 3208.478 | 1.306 | .20E-05 | 0.00 | .75E-06 | -24.751 | .29E-05 | 98.009 | .441E+04 | 129.573 | -0.000 | -0.000 | *.00000 |
| 137. | 3209.741 | 1.268 | .20E-05 | 0.00 | .73E-06 | -20.684 | .29E-05 | 98.035 | .450E+04 | 129.034 | -0.000 | -0.000 | *.00000 |
| 138. | 3210.940 | 1.176 | .20E-05 | 0.00 | .70E-06 | -16.262 | .29E-05 | 98.032 | .458E+04 | 128.666 | -0.000 | -0.000 | *.00000 |
| 139. | 3212.023 | 1.029 | .20E-05 | 0.00 | .68E-06 | -11.469 | .29E-05 | 98.001 | .464E+04 | 128.444 | -0.000 | -0.000 | *.00000 |
| 140. | 3212.938 | .833 | .21E-05 | 0.00 | .65E-06 | -6.303 | .30E-05 | 97.942 | .468E+04 | 128.340 | -0.000 | -0.000 | *.00000 |
| 141. | 3213.640 | .595 | .21E-05 | 0.00 | .63E-06 | -.791 | .30E-05 | 97.857 | .471E+04 | 128.329 | -0.000 | -0.000 | *.00000 |
| 142. | 3214.091 | .322 | .21E-05 | 0.00 | .61E-06 | 5.011 | .30E-05 | 97.748 | .471E+04 | 128.388 | -0.000 | -0.000 | *.00000 |
| 143. | 3214.263 | .026 | .21E-05 | 0.00 | .60E-06 | 11.012 | .30E-05 | 97.617 | .469E+04 | 128.491 | -0.000 | -0.000 | *.00000 |
| 144. | 3214.139 | -.282 | .21E-05 | 0.00 | .59E-06 | 17.095 | .30E-05 | 97.469 | .466E+04 | 128.619 | -0.000 | -0.000 | *.00000 |
| 145. | 3213.711 | -.592 | .21E-05 | 0.00 | .58E-06 | 23.127 | .30E-05 | 97.304 | .461E+04 | 128.752 | -0.000 | -0.000 | *.00000 |
| 146. | 3212.983 | -.894 | .21E-05 | 0.00 | .58E-06 | 28.978 | .30E-05 | 97.126 | .454E+04 | 128.872 | -0.000 | -0.000 | *.00000 |
| 147. | 3211.967 | -1.180 | .21E-05 | 0.00 | .58E-06 | 34.539 | .30E-05 | 96.939 | .446E+04 | 128.965 | -0.000 | -0.000 | *.00000 |
| 148. | 3210.681 | -1.445 | .21E-05 | 0.00 | .59E-06 | 39.731 | .30E-05 | 96.743 | .437E+04 | 129.018 | -0.000 | -0.000 | *.00000 |
| 149. | 3209.149 | -1.683 | .21E-05 | 0.00 | .60E-06 | 44.507 | .30E-05 | 96.541 | .427E+04 | 129.021 | -0.000 | -0.000 | *.00000 |

Y-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3207.398 | -1.893 | .21E-05 | 0.00 | .60E-06 | 48.852 | .29E-05 | 96.335 | .417E+04 | 128.965 | -0.000 | -0.000 | *.00000 |
| 151. | 3205.458 | -2.074 | .21E-05 | 0.00 | .61E-06 | 52.773 | .29E-05 | 96.126 | .406E+04 | 128.844 | -0.000 | -0.000 | *.00000 |
| 152. | 3203.357 | -2.224 | .21E-05 | 0.00 | .62E-06 | 56.294 | .29E-05 | 95.916 | .395E+04 | 128.653 | -0.000 | -0.000 | *.00000 |
| 153. | 3201.124 | -2.346 | .21E-05 | 0.00 | .63E-06 | 59.447 | .29E-05 | 95.704 | .384E+04 | 128.387 | -0.000 | -0.000 | *.00000 |
| 154. | 3198.787 | -2.441 | .21E-05 | 0.00 | .65E-06 | 62.267 | .29E-05 | 95.492 | .373E+04 | 128.042 | -0.000 | -0.000 | *.00000 |
| 155. | 3196.372 | -2.510 | .20E-05 | 0.00 | .66E-06 | 64.791 | .29E-05 | 95.279 | .362E+04 | 127.617 | -0.000 | -0.000 | *.00000 |
| 156. | 3193.905 | -2.554 | .20E-05 | 0.00 | .67E-06 | 67.053 | .29E-05 | 95.067 | .351E+04 | 127.109 | -0.000 | -0.000 | *.00000 |
| 157. | 3191.406 | -2.577 | .20E-05 | 0.00 | .68E-06 | 69.085 | .29E-05 | 94.855 | .341E+04 | 126.516 | -0.000 | -0.000 | *.00000 |
| 158. | 3188.897 | -2.579 | .20E-05 | 0.00 | .69E-06 | 70.916 | .29E-05 | 94.644 | .331E+04 | 125.838 | -0.000 | -0.000 | *.00000 |
| 159. | 3186.397 | -2.563 | .20E-05 | 0.00 | .69E-06 | 72.571 | .29E-05 | 94.433 | .321E+04 | 125.072 | -0.000 | -0.000 | *.00000 |
| 160. | 3183.923 | -2.530 | .20E-05 | 0.00 | .70E-06 | 74.073 | .29E-05 | 94.222 | .311E+04 | 124.219 | -0.000 | -0.000 | *.00000 |
| 161. | 3181.491 | -2.482 | .20E-05 | 0.00 | .71E-06 | 75.441 | .29E-05 | 94.012 | .302E+04 | 123.276 | -0.000 | -0.000 | *.00000 |
| 162. | 3179.114 | -2.419 | .20E-05 | 0.00 | .71E-06 | 76.693 | .29E-05 | 93.801 | .294E+04 | 122.245 | -0.000 | -0.000 | *.00000 |
| 163. | 3176.806 | -2.344 | .20E-05 | 0.00 | .72E-06 | 77.843 | .29E-05 | 93.591 | .285E+04 | 121.123 | -0.000 | -0.000 | *.00000 |
| 164. | 3174.578 | -2.258 | .20E-05 | 0.00 | .73E-06 | 78.904 | .29E-05 | 93.381 | .277E+04 | 119.912 | -0.000 | -0.000 | *.00000 |
| 165. | 3172.440 | -2.161 | .20E-05 | 0.00 | .73E-06 | 79.888 | .29E-05 | 93.171 | .270E+04 | 118.610 | -0.000 | -0.000 | *.00000 |
| 166. | 3170.401 | -2.055 | .20E-05 | 0.00 | .74E-06 | 80.804 | .29E-05 | 92.961 | .263E+04 | 117.219 | -0.000 | -0.000 | *.00000 |
| 167. | 3168.471 | -1.941 | .20E-05 | 0.00 | .74E-06 | 81.661 | .29E-05 | 92.751 | .256E+04 | 115.738 | -0.000 | -0.000 | *.00000 |
| 168. | 3166.656 | -1.819 | .20E-05 | 0.00 | .75E-06 | 82.468 | .29E-05 | 92.541 | .250E+04 | 114.170 | -0.000 | -0.000 | *.00000 |
| 169. | 3164.964 | -1.690 | .20E-05 | 0.00 | .75E-06 | 83.229 | .29E-05 | 92.330 | .245E+04 | 112.517 | -0.000 | -0.000 | *.00000 |
| 170. | 3163.399 | -1.554 | .20E-05 | 0.00 | .75E-06 | 83.952 | .29E-05 | 92.119 | .239E+04 | 110.779 | -0.000 | -0.000 | *.00000 |
| 171. | 3161.969 | -1.414 | .20E-05 | 0.00 | .75E-06 | 84.642 | .29E-05 | 91.908 | .235E+04 | 108.962 | -0.000 | -0.000 | *.00000 |
| 172. | 3160.677 | -1.268 | .20E-05 | 0.00 | .76E-06 | 85.303 | .29E-05 | 91.697 | .230E+04 | 107.069 | -0.000 | -0.000 | *.00000 |
| 173. | 3159.527 | -1.119 | .20E-05 | 0.00 | .76E-06 | 85.940 | .29E-05 | 91.485 | .227E+04 | 105.106 | -0.000 | -0.000 | *.00000 |
| 174. | 3158.524 | -.966 | .20E-05 | 0.00 | .76E-06 | 86.556 | .29E-05 | 91.274 | .223E+04 | 103.077 | -0.000 | -0.000 | *.00000 |
| 175. | 3157.670 | -.809 | .20E-05 | 0.00 | .76E-06 | 87.155 | .29E-05 | 91.062 | .221E+04 | 100.991 | -0.000 | -0.000 | *.00000 |
| 176. | 3156.968 | -.650 | .20E-05 | 0.00 | .76E-06 | 87.740 | .29E-05 | 90.850 | .218E+04 | 98.855 | -0.000 | -0.000 | *.00000 |
| 177. | 3156.420 | -.490 | .20E-05 | 0.00 | .76E-06 | 88.314 | .29E-05 | 90.637 | .217E+04 | 96.678 | -0.000 | -0.000 | *.00000 |
| 178. | 3156.027 | -.327 | .20E-05 | 0.00 | .76E-06 | 88.880 | .29E-05 | 90.425 | .215E+04 | 94.470 | -0.000 | -0.000 | *.00000 |
| 179. | 3155.791 | -.164 | .20E-05 | 0.00 | .77E-06 | 89.441 | .29E-05 | 90.213 | .214E+04 | 92.240 | -0.000 | -0.000 | *.00000 |
| 180. | 3155.712 | 0.000 | .20E-05 | 0.00 | .77E-06 | 90.000 | .29E-05 | 90.000 | .214E+04 | 90.000 | -0.000 | -0.000 | *.00000 |

Z-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 3233.170 | 0.000 | .18E-05 | 0.00 | .12E-05 | 90.000 | .24E-05 | 90.000 | .205E+04 | 90.000 | 3231.594 | 0.000 | .00049 |
| 1. | 3233.378 | .422 | .18E-05 | 0.00 | .12E-05 | 89.464 | .24E-05 | 89.511 | .206E+04 | 92.440 | 3231.791 | .399 | .00049 |
| 2. | 3234.002 | .844 | .18E-05 | 0.00 | .12E-05 | 88.928 | .24E-05 | 89.023 | .208E+04 | 94.819 | 3232.379 | .796 | .00050 |
| 3. | 3235.040 | 1.263 | .18E-05 | 0.00 | .12E-05 | 88.394 | .24E-05 | 88.536 | .212E+04 | 97.081 | 3233.358 | 1.191 | .00052 |
| 4. | 3236.491 | 1.680 | .18E-05 | 0.00 | .12E-05 | 87.861 | .24E-05 | 88.051 | .217E+04 | 99.182 | 3234.725 | 1.583 | .00055 |
| 5. | 3238.352 | 2.092 | .18E-05 | 0.00 | .12E-05 | 87.330 | .24E-05 | 87.569 | .224E+04 | 101.083 | 3236.477 | 1.970 | .00058 |
| 6. | 3240.619 | 2.499 | .18E-05 | 0.00 | .12E-05 | 86.803 | .24E-05 | 87.090 | .232E+04 | 102.764 | 3238.609 | 2.351 | .00062 |
| 7. | 3243.288 | 2.900 | .18E-05 | 0.00 | .12E-05 | 86.279 | .24E-05 | 86.615 | .241E+04 | 104.211 | 3241.115 | 2.724 | .00067 |
| 8. | 3246.351 | 3.292 | .18E-05 | 0.00 | .12E-05 | 85.760 | .24E-05 | 86.145 | .251E+04 | 105.424 | 3243.989 | 3.088 | .00073 |
| 9. | 3249.803 | 3.675 | .18E-05 | 0.00 | .12E-05 | 85.246 | .24E-05 | 85.681 | .263E+04 | 106.407 | 3247.220 | 3.441 | .00079 |
| 10. | 3253.634 | 4.046 | .19E-05 | 0.00 | .12E-05 | 84.738 | .24E-05 | 85.223 | .275E+04 | 107.173 | 3250.800 | 3.780 | .00087 |
| 11. | 3257.833 | 4.404 | .19E-05 | 0.00 | .12E-05 | 84.238 | .24E-05 | 84.772 | .289E+04 | 107.737 | 3254.714 | 4.105 | .00096 |
| 12. | 3262.397 | 4.745 | .19E-05 | 0.00 | .12E-05 | 83.747 | .24E-05 | 84.330 | .303E+04 | 108.117 | 3258.948 | 4.411 | .00105 |
| 13. | 3267.290 | 5.068 | .19E-05 | 0.00 | .11E-05 | 83.265 | .24E-05 | 83.897 | .319E+04 | 108.331 | 3263.483 | 4.697 | .00116 |
| 14. | 3272.494 | 5.368 | .19E-05 | 0.00 | .11E-05 | 82.795 | .24E-05 | 83.474 | .335E+04 | 108.400 | 3268.299 | 4.958 | .00128 |
| 15. | 3278.007 | 5.642 | .19E-05 | 0.00 | .11E-05 | 82.337 | .24E-05 | 83.063 | .352E+04 | 108.342 | 3273.370 | 5.190 | .00141 |
| 16. | 3283.799 | 5.885 | .19E-05 | 0.00 | .11E-05 | 81.894 | .25E-05 | 82.664 | .370E+04 | 108.175 | 3278.666 | 5.388 | .00156 |
| 17. | 3289.809 | 6.090 | .20E-05 | 0.00 | .10E-05 | 81.467 | .25E-05 | 82.279 | .389E+04 | 107.917 | 3284.151 | 5.547 | .00172 |
| 18. | 3296.026 | 6.250 | .20E-05 | 0.00 | .10E-05 | 81.059 | .25E-05 | 81.909 | .409E+04 | 107.585 | 3289.783 | 5.659 | .00189 |
| 19. | 3302.391 | 6.355 | .20E-05 | 0.00 | .98E-06 | 80.671 | .25E-05 | 81.556 | .430E+04 | 107.195 | 3295.512 | 5.717 | .00208 |
| 20. | 3308.845 | 6.397 | .20E-05 | 0.00 | .94E-06 | 80.306 | .25E-05 | 81.222 | .451E+04 | 106.763 | 3301.278 | 5.711 | .00229 |
| 21. | 3315.315 | 6.360 | .21E-05 | 0.00 | .89E-06 | 79.966 | .25E-05 | 80.908 | .473E+04 | 106.304 | 3307.010 | 5.629 | .00251 |
| 22. | 3321.712 | 6.229 | .21E-05 | 0.00 | .83E-06 | 79.653 | .26E-05 | 80.616 | .495E+04 | 105.833 | 3312.626 | 5.460 | .00274 |
| 23. | 3327.931 | 5.984 | .21E-05 | 0.00 | .77E-06 | 79.370 | .26E-05 | 80.349 | .517E+04 | 105.365 | 3318.029 | 5.191 | .00298 |
| 24. | 3333.844 | 5.606 | .22E-05 | 0.00 | .69E-06 | 79.119 | .26E-05 | 80.109 | .539E+04 | 104.915 | 3323.109 | 4.808 | .00322 |
| 25. | 3339.301 | 5.074 | .22E-05 | 0.00 | .60E-06 | 78.902 | .26E-05 | 79.899 | .561E+04 | 104.498 | 3327.742 | 4.299 | .00346 |
| 26. | 3344.135 | 4.371 | .22E-05 | 0.00 | .50E-06 | 78.721 | .27E-05 | 79.721 | .580E+04 | 104.128 | 3331.796 | 3.659 | .00369 |
| 27. | 3348.162 | 3.490 | .23E-05 | 0.00 | .39E-06 | 78.579 | .27E-05 | 79.578 | .597E+04 | 103.821 | 3335.135 | 2.889 | .00389 |
| 28. | 3351.204 | 2.440 | .23E-05 | 0.00 | .27E-06 | 78.476 | .27E-05 | 79.474 | .610E+04 | 103.590 | 3337.630 | 2.001 | .00405 |
| 29. | 3353.102 | 1.258 | .23E-05 | 0.00 | .14E-06 | 78.414 | .27E-05 | 79.410 | .619E+04 | 103.447 | 3339.176 | 1.025 | .00415 |
| 30. | 3353.747 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .27E-05 | 79.389 | .622E+04 | 103.398 | 3339.699 | 0.000 | .00419 |
| 31. | 3353.102 | -1.258 | .23E-05 | 0.00 | .14E-06 | -101.586 | .27E-05 | 79.410 | .619E+04 | 103.447 | 3339.176 | -1.025 | .00415 |
| 32. | 3351.204 | -2.440 | .23E-05 | 0.00 | .27E-06 | -101.524 | .27E-05 | 79.474 | .610E+04 | 103.590 | 3337.630 | -2.001 | .00405 |
| 33. | 3348.162 | -3.490 | .23E-05 | 0.00 | .39E-06 | -101.421 | .27E-05 | 79.578 | .597E+04 | 103.821 | 3335.135 | -2.889 | .00389 |
| 34. | 3344.135 | -4.371 | .22E-05 | 0.00 | .50E-06 | -101.279 | .27E-05 | 79.721 | .580E+04 | 104.128 | 3331.796 | -3.659 | .00369 |
| 35. | 3339.301 | -5.074 | .22E-05 | 0.00 | .60E-06 | -101.098 | .26E-05 | 79.899 | .561E+04 | 104.498 | 3327.742 | -4.299 | .00346 |
| 36. | 3333.844 | -5.606 | .22E-05 | 0.00 | .69E-06 | -100.881 | .26E-05 | 80.109 | .539E+04 | 104.915 | 3323.109 | -4.808 | .00322 |
| 37. | 3327.931 | -5.984 | .21E-05 | 0.00 | .77E-06 | -100.630 | .26E-05 | 80.349 | .517E+04 | 105.365 | 3318.029 | -5.191 | .00298 |
| 38. | 3321.712 | -6.229 | .21E-05 | 0.00 | .83E-06 | -100.347 | .26E-05 | 80.616 | .495E+04 | 105.833 | 3312.626 | -5.460 | .00274 |
| 39. | 3315.315 | -6.360 | .21E-05 | 0.00 | .89E-06 | -100.034 | .25E-05 | 80.908 | .473E+04 | 106.304 | 3307.010 | -5.629 | .00251 |
| 40. | 3308.845 | -6.397 | .20E-05 | 0.00 | .94E-06 | -99.694 | .25E-05 | 81.222 | .451E+04 | 106.763 | 3301.278 | -5.711 | .00229 |
| 41. | 3302.391 | -6.356 | .20E-05 | 0.00 | .98E-06 | -99.329 | .25E-05 | 81.556 | .430E+04 | 107.195 | 3295.512 | -5.717 | .00208 |
| 42. | 3296.026 | -6.250 | .20E-05 | 0.00 | .10E-05 | -98.941 | .25E-05 | 81.909 | .409E+04 | 107.585 | 3289.783 | -5.659 | .00189 |
| 43. | 3289.809 | -6.090 | .20E-05 | 0.00 | .10E-05 | -98.533 | .25E-05 | 82.279 | .389E+04 | 107.917 | 3284.151 | -5.547 | .00172 |
| 44. | 3283.799 | -5.885 | .19E-05 | 0.00 | .11E-05 | -98.106 | .25E-05 | 82.664 | .370E+04 | 108.175 | 3278.666 | -5.388 | .00156 |
| 45. | 3278.007 | -5.642 | .19E-05 | 0.00 | .11E-05 | -97.663 | .24E-05 | 83.063 | .352E+04 | 108.342 | 3273.370 | -5.190 | .00141 |
| 46. | 3272.494 | -5.368 | .19E-05 | 0.00 | .11E-05 | -97.205 | .24E-05 | 83.474 | .335E+04 | 108.400 | 3268.299 | -4.958 | .00128 |
| 47. | 3267.290 | -5.068 | .19E-05 | 0.00 | .11E-05 | -96.735 | .24E-05 | 83.897 | .319E+04 | 108.331 | 3263.483 | -4.697 | .00116 |
| 48. | 3262.397 | -4.745 | .19E-05 | 0.00 | .12E-05 | -96.253 | .24E-05 | 84.330 | .303E+04 | 108.117 | 3258.948 | -4.411 | .00105 |
| 49. | 3257.833 | -4.404 | .19E-05 | 0.00 | .12E-05 | -95.762 | .24E-05 | 84.772 | .289E+04 | 107.737 | 3254.714 | -4.105 | .00096 |

Z-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 3253.634 | -4.046 | .19E-05 | 0.00 | .12E-05 | -95.262 | .24E-05 | 85.223 | .275E+04 | 107.173 | 3250.800 | -3.780 | .00087 |
| 51. | 3249.803 | -3.675 | .18E-05 | 0.00 | .12E-05 | -94.754 | .24E-05 | 85.681 | .263E+04 | 106.407 | 3247.220 | -3.441 | .00079 |
| 52. | 3246.351 | -3.292 | .18E-05 | 0.00 | .12E-05 | -94.240 | .24E-05 | 86.145 | .251E+04 | 105.424 | 3243.989 | -3.088 | .00073 |
| 53. | 3243.288 | -2.900 | .18E-05 | 0.00 | .12E-05 | -93.721 | .24E-05 | 86.615 | .241E+04 | 104.211 | 3241.115 | -2.724 | .00067 |
| 54. | 3240.619 | -2.499 | .18E-05 | 0.00 | .12E-05 | -93.197 | .24E-05 | 87.090 | .232E+04 | 102.764 | 3238.609 | -2.351 | .00062 |
| 55. | 3238.352 | -2.092 | .18E-05 | 0.00 | .12E-05 | -92.670 | .24E-05 | 87.569 | .224E+04 | 101.083 | 3236.477 | -1.970 | .00058 |
| 56. | 3236.491 | -1.680 | .18E-05 | 0.00 | .12E-05 | -92.139 | .24E-05 | 88.051 | .217E+04 | 99.182 | 3234.725 | -1.583 | .00055 |
| 57. | 3235.040 | -1.263 | .18E-05 | 0.00 | .12E-05 | -91.606 | .24E-05 | 88.536 | .212E+04 | 97.081 | 3233.358 | -1.191 | .00052 |
| 58. | 3234.002 | -.844 | .18E-05 | 0.00 | .12E-05 | -91.072 | .24E-05 | 89.023 | .208E+04 | 94.819 | 3232.379 | -.796 | .00050 |
| 59. | 3233.378 | -.422 | .18E-05 | 0.00 | .12E-05 | -90.536 | .24E-05 | 89.511 | .206E+04 | 92.440 | 3231.791 | -.399 | .00049 |
| 60. | 3233.170 | 0.000 | .18E-05 | 0.00 | .12E-05 | -90.000 | .24E-05 | 90.000 | .205E+04 | 90.000 | 3231.594 | 0.000 | .00049 |
| 61. | 3233.378 | .422 | .18E-05 | 0.00 | .12E-05 | -89.464 | .24E-05 | 90.489 | .206E+04 | 87.560 | 3231.791 | .399 | .00049 |
| 62. | 3234.002 | .844 | .18E-05 | 0.00 | .12E-05 | -88.928 | .24E-05 | 90.977 | .208E+04 | 85.181 | 3232.379 | .796 | .00050 |
| 63. | 3235.040 | 1.263 | .18E-05 | 0.00 | .12E-05 | -88.394 | .24E-05 | 91.464 | .212E+04 | 82.919 | 3233.358 | 1.191 | .00052 |
| 64. | 3236.491 | 1.680 | .18E-05 | 0.00 | .12E-05 | -87.861 | .24E-05 | 91.949 | .217E+04 | 80.818 | 3234.725 | 1.583 | .00055 |
| 65. | 3238.352 | 2.092 | .18E-05 | 0.00 | .12E-05 | -87.330 | .24E-05 | 92.431 | .224E+04 | 78.917 | 3236.477 | 1.970 | .00058 |
| 66. | 3240.619 | 2.499 | .18E-05 | 0.00 | .12E-05 | -86.803 | .24E-05 | 92.910 | .232E+04 | 77.236 | 3238.609 | 2.351 | .00062 |
| 67. | 3243.288 | 2.900 | .18E-05 | 0.00 | .12E-05 | -86.279 | .24E-05 | 93.385 | .241E+04 | 75.789 | 3241.115 | 2.724 | .00067 |
| 68. | 3246.351 | 3.292 | .18E-05 | 0.00 | .12E-05 | -85.760 | .24E-05 | 93.855 | .251E+04 | 74.576 | 3243.989 | 3.088 | .00073 |
| 69. | 3249.803 | 3.675 | .18E-05 | 0.00 | .12E-05 | -85.246 | .24E-05 | 94.319 | .263E+04 | 73.593 | 3247.220 | 3.441 | .00079 |
| 70. | 3253.634 | 4.046 | .19E-05 | 0.00 | .12E-05 | -84.738 | .24E-05 | 94.777 | .275E+04 | 72.827 | 3250.800 | 3.780 | .00087 |
| 71. | 3257.833 | 4.404 | .19E-05 | 0.00 | .12E-05 | -84.238 | .24E-05 | 95.228 | .289E+04 | 72.263 | 3254.714 | 4.105 | .00096 |
| 72. | 3262.387 | 4.745 | .19E-05 | 0.00 | .12E-05 | -83.747 | .24E-05 | 95.670 | .303E+04 | 71.883 | 3258.948 | 4.411 | .00105 |
| 73. | 3267.280 | 5.068 | .19E-05 | 0.00 | .11E-05 | -83.265 | .24E-05 | 96.103 | .319E+04 | 71.669 | 3263.483 | 4.697 | .00116 |
| 74. | 3272.494 | 5.368 | .19E-05 | 0.00 | .11E-05 | -82.795 | .24E-05 | 96.526 | .335E+04 | 71.600 | 3268.299 | 4.958 | .00128 |
| 75. | 3278.007 | 5.642 | .19E-05 | 0.00 | .11E-05 | -82.337 | .24E-05 | 96.937 | .352E+04 | 71.658 | 3273.370 | 5.190 | .00141 |
| 76. | 3283.789 | 5.885 | .19E-05 | 0.00 | .11E-05 | -81.894 | .25E-05 | 97.336 | .370E+04 | 71.825 | 3278.666 | 5.388 | .00155 |
| 77. | 3289.809 | 6.090 | .20E-05 | 0.00 | .10E-05 | -81.467 | .25E-05 | 97.721 | .389E+04 | 72.083 | 3284.151 | 5.547 | .00172 |
| 78. | 3296.026 | 6.250 | .20E-05 | 0.00 | .10E-05 | -81.059 | .25E-05 | 98.091 | .409E+04 | 72.415 | 3289.783 | 5.659 | .00189 |
| 79. | 3302.391 | 6.356 | .20E-05 | 0.00 | .98E-06 | -80.671 | .25E-05 | 98.444 | .430E+04 | 72.805 | 3295.512 | 5.717 | .00208 |
| 80. | 3308.845 | 6.397 | .20E-05 | 0.00 | .94E-06 | -80.306 | .25E-05 | 98.778 | .451E+04 | 73.237 | 3301.278 | 5.711 | .00229 |
| 81. | 3315.315 | 6.360 | .21E-05 | 0.00 | .89E-06 | -79.966 | .25E-05 | 99.092 | .473E+04 | 73.696 | 3307.010 | 5.629 | .00251 |
| 82. | 3321.712 | 6.229 | .21E-05 | 0.00 | .83E-06 | -79.653 | .26E-05 | 99.384 | .495E+04 | 74.167 | 3312.626 | 5.460 | .00274 |
| 83. | 3327.931 | 5.984 | .21E-05 | 0.00 | .77E-06 | -79.370 | .26E-05 | 99.651 | .517E+04 | 74.635 | 3318.029 | 5.191 | .00298 |
| 84. | 3333.844 | 5.606 | .22E-05 | 0.00 | .69E-06 | -79.119 | .26E-05 | 99.891 | .539E+04 | 75.085 | 3323.109 | 4.808 | .00322 |
| 85. | 3339.301 | 5.074 | .22E-05 | 0.00 | .60E-06 | -78.902 | .26E-05 | 100.101 | .561E+04 | 75.502 | 3327.742 | 4.299 | .00346 |
| 86. | 3344.135 | 4.371 | .22E-05 | 0.00 | .50E-06 | -78.721 | .27E-05 | 100.279 | .580E+04 | 75.872 | 3331.796 | 3.659 | .00369 |
| 87. | 3348.162 | 3.490 | .23E-05 | 0.00 | .39E-06 | -78.579 | .27E-05 | 100.422 | .597E+04 | 76.179 | 3335.135 | 2.889 | .00389 |
| 88. | 3351.204 | 2.440 | .23E-05 | 0.00 | .27E-06 | -78.476 | .27E-05 | 100.526 | .610E+04 | 76.410 | 3337.630 | 2.001 | .00405 |
| 89. | 3353.102 | 1.258 | .23E-05 | 0.00 | .14E-06 | -78.414 | .27E-05 | 100.590 | .619E+04 | 76.553 | 3339.176 | 1.025 | .00415 |
| 90. | 3353.747 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .27E-05 | 100.611 | .622E+04 | 76.602 | 3339.699 | 0.000 | .00419 |
| 91. | 3353.102 | -1.258 | .23E-05 | 0.00 | .14E-06 | 101.586 | .27E-05 | 100.590 | .619E+04 | 76.553 | 3339.176 | -1.025 | .00415 |
| 92. | 3351.204 | -2.440 | .23E-05 | 0.00 | .27E-06 | 101.524 | .27E-05 | 100.526 | .610E+04 | 76.410 | 3337.630 | -2.001 | .00405 |
| 93. | 3348.162 | -3.490 | .23E-05 | 0.00 | .39E-06 | 101.421 | .27E-05 | 100.422 | .597E+04 | 76.179 | 3335.135 | -2.889 | .00389 |
| 94. | 3344.135 | -4.371 | .22E-05 | 0.00 | .50E-06 | 101.279 | .27E-05 | 100.279 | .580E+04 | 75.872 | 3331.796 | -3.659 | .00369 |
| 95. | 3339.301 | -5.074 | .22E-05 | 0.00 | .60E-06 | 101.098 | .26E-05 | 100.101 | .561E+04 | 75.502 | 3327.742 | -4.299 | .00346 |
| 96. | 3333.844 | -5.606 | .22E-05 | 0.00 | .69E-06 | 100.881 | .26E-05 | 99.891 | .539E+04 | 75.085 | 3323.109 | -4.808 | .00322 |
| 97. | 3327.931 | -5.984 | .21E-05 | 0.00 | .77E-06 | 100.630 | .26E-05 | 99.651 | .517E+04 | 74.635 | 3318.029 | -5.191 | .00298 |
| 98. | 3321.712 | -6.229 | .21E-05 | 0.00 | .83E-06 | 100.347 | .26E-05 | 99.384 | .495E+04 | 74.167 | 3312.626 | -5.460 | .00274 |
| 99. | 3315.315 | -6.360 | .21E-05 | 0.00 | .89E-06 | 100.034 | .25E-05 | 99.092 | .473E+04 | 73.696 | 3307.010 | -5.629 | .00251 |

Z-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 3308.945 | -6.397 | .20E-05 | 0.00 | .94E-06 | 99.694 | .25E-05 | 98.778 | .451E+04 | 73.237 | 3301.278 | -5.711 | .00229 |
| 101. | 3302.391 | -6.356 | .20E-05 | 0.00 | .98E-06 | 99.729 | .25E-05 | 98.444 | .430E+04 | 72.805 | 3295.512 | -5.717 | .00208 |
| 102. | 3296.026 | -6.250 | .20E-05 | 0.00 | .10E-05 | 98.941 | .25E-05 | 98.091 | .409E+04 | 72.415 | 3289.783 | -5.659 | .00189 |
| 103. | 3289.809 | -6.090 | .20E-05 | 0.00 | .10E-05 | 98.533 | .25E-05 | 97.721 | .389E+04 | 72.083 | 3284.151 | -5.547 | .00172 |
| 104. | 3283.789 | -5.885 | .19E-05 | 0.00 | .11E-05 | 98.106 | .25E-05 | 97.336 | .370E+04 | 71.825 | 3278.666 | -5.388 | .00156 |
| 105. | 3278.007 | -5.642 | .19E-05 | 0.00 | .11E-05 | 97.663 | .24E-05 | 96.937 | .352E+04 | 71.658 | 3273.370 | -5.190 | .00141 |
| 106. | 3272.494 | -5.368 | .19E-05 | 0.00 | .11E-05 | 97.205 | .24E-05 | 96.526 | .335E+04 | 71.600 | 3268.299 | -4.958 | .00128 |
| 107. | 3267.280 | -5.068 | .19E-05 | 0.00 | .11E-05 | 96.735 | .24E-05 | 96.103 | .319E+04 | 71.669 | 3263.483 | -4.697 | .00116 |
| 108. | 3262.387 | -4.745 | .19E-05 | 0.00 | .12E-05 | 96.253 | .24E-05 | 95.670 | .303E+04 | 71.883 | 3258.948 | -4.411 | .00105 |
| 109. | 3257.833 | -4.404 | .19E-05 | 0.00 | .12E-05 | 95.762 | .24E-05 | 95.228 | .289E+04 | 72.263 | 3254.714 | -4.105 | .00096 |
| 110. | 3253.634 | -4.046 | .19E-05 | 0.00 | .12E-05 | 95.262 | .24E-05 | 94.777 | .275E+04 | 72.827 | 3250.808 | -3.780 | .00087 |
| 111. | 3249.803 | -3.675 | .18E-05 | 0.00 | .12E-05 | 94.754 | .24E-05 | 94.319 | .263E+04 | 73.593 | 3247.220 | -3.441 | .00079 |
| 112. | 3246.351 | -3.292 | .18E-05 | 0.00 | .12E-05 | 94.240 | .24E-05 | 93.855 | .251E+04 | 74.576 | 3243.989 | -3.088 | .00073 |
| 113. | 3243.288 | -2.900 | .18E-05 | 0.00 | .12E-05 | 93.721 | .24E-05 | 93.385 | .241E+04 | 75.789 | 3241.115 | -2.724 | .00067 |
| 114. | 3240.619 | -2.499 | .18E-05 | 0.00 | .12E-05 | 93.197 | .24E-05 | 92.910 | .232E+04 | 77.236 | 3238.609 | -2.351 | .00062 |
| 115. | 3238.352 | -2.092 | .18E-05 | 0.00 | .12E-05 | 92.670 | .24E-05 | 92.431 | .224E+04 | 78.917 | 3236.477 | -1.970 | .00058 |
| 116. | 3236.491 | -1.680 | .18E-05 | 0.00 | .12E-05 | 92.139 | .24E-05 | 91.949 | .217E+04 | 80.818 | 3234.725 | -1.583 | .00055 |
| 117. | 3235.040 | -1.263 | .18E-05 | 0.00 | .12E-05 | 91.606 | .24E-05 | 91.464 | .212E+04 | 82.919 | 3233.358 | -1.191 | .00052 |
| 118. | 3234.002 | -.844 | .18E-05 | 0.00 | .12E-05 | 91.072 | .24E-05 | 90.977 | .208E+04 | 85.181 | 3232.379 | -.796 | .00050 |
| 119. | 3233.378 | -.422 | .18E-05 | 0.00 | .12E-05 | 90.536 | .24E-05 | 90.489 | .208E+04 | 87.560 | 3231.791 | -.399 | .00049 |
| 120. | 3233.170 | 0.000 | .18E-05 | 0.00 | .12E-05 | 90.000 | .24E-05 | 90.000 | .205E+04 | 90.000 | 3231.594 | 0.000 | .00049 |
| 121. | 3233.378 | .422 | .18E-05 | 0.00 | .12E-05 | 89.464 | .24E-05 | 89.511 | .206E+04 | 92.440 | 3231.791 | .399 | .00049 |
| 122. | 3234.002 | .844 | .18E-05 | 0.00 | .12E-05 | 88.928 | .24E-05 | 89.023 | .208E+04 | 94.819 | 3232.379 | .796 | .00050 |
| 123. | 3235.040 | 1.263 | .18E-05 | 0.00 | .12E-05 | 88.394 | .24E-05 | 88.536 | .212E+04 | 97.081 | 3233.358 | 1.191 | .00052 |
| 124. | 3236.491 | 1.680 | .18E-05 | 0.00 | .12E-05 | 87.861 | .24E-05 | 88.051 | .217E+04 | 99.182 | 3234.725 | 1.583 | .00055 |
| 125. | 3238.352 | 2.092 | .18E-05 | 0.00 | .12E-05 | 87.330 | .24E-05 | 87.569 | .224E+04 | 101.083 | 3236.477 | 1.970 | .00058 |
| 126. | 3240.619 | 2.499 | .18E-05 | 0.00 | .12E-05 | 86.803 | .24E-05 | 87.090 | .232E+04 | 102.764 | 3238.609 | 2.351 | .00062 |
| 127. | 3243.288 | 2.900 | .18E-05 | 0.00 | .12E-05 | 86.279 | .24E-05 | 86.615 | .241E+04 | 104.211 | 3241.115 | 2.724 | .00067 |
| 128. | 3246.351 | 3.292 | .18E-05 | 0.00 | .12E-05 | 85.760 | .24E-05 | 86.145 | .251E+04 | 105.424 | 3243.989 | 3.088 | .00073 |
| 129. | 3249.803 | 3.675 | .18E-05 | 0.00 | .12E-05 | 85.246 | .24E-05 | 85.681 | .263E+04 | 106.407 | 3247.220 | 3.441 | .00079 |
| 130. | 3253.634 | 4.046 | .19E-05 | 0.00 | .12E-05 | 84.738 | .24E-05 | 85.223 | .275E+04 | 107.173 | 3250.800 | 3.780 | .00087 |
| 131. | 3257.833 | 4.404 | .19E-05 | 0.00 | .12E-05 | 84.238 | .24E-05 | 84.772 | .289E+04 | 107.737 | 3254.714 | 4.105 | .00096 |
| 132. | 3262.387 | 4.745 | .19E-05 | 0.00 | .12E-05 | 83.747 | .24E-05 | 84.330 | .303E+04 | 108.117 | 3258.948 | 4.411 | .00105 |
| 133. | 3267.280 | 5.068 | .19E-05 | 0.00 | .11E-05 | 83.265 | .24E-05 | 83.897 | .319E+04 | 108.331 | 3263.483 | 4.697 | .00116 |
| 134. | 3272.494 | 5.368 | .19E-05 | 0.00 | .11E-05 | 82.795 | .24E-05 | 83.474 | .335E+04 | 108.400 | 3268.299 | 4.958 | .00128 |
| 135. | 3278.007 | 5.642 | .19E-05 | 0.00 | .11E-05 | 82.337 | .24E-05 | 83.063 | .352E+04 | 108.342 | 3273.370 | 5.190 | .00141 |
| 136. | 3283.789 | 5.885 | .19E-05 | 0.00 | .11E-05 | 81.894 | .25E-05 | 82.664 | .370E+04 | 108.175 | 3278.666 | 5.388 | .00156 |
| 137. | 3289.809 | 6.090 | .20E-05 | 0.00 | .10E-05 | 81.467 | .25E-05 | 82.279 | .389E+04 | 107.917 | 3284.151 | 5.547 | .00172 |
| 138. | 3296.026 | 6.250 | .20E-05 | 0.00 | .10E-05 | 81.059 | .25E-05 | 81.909 | .409E+04 | 107.585 | 3289.783 | 5.659 | .00189 |
| 139. | 3302.391 | 6.356 | .20E-05 | 0.00 | .98E-06 | 80.671 | .25E-05 | 81.556 | .430E+04 | 107.195 | 3295.512 | 5.717 | .00208 |
| 140. | 3308.845 | 6.397 | .20E-05 | 0.00 | .94E-06 | 80.306 | .25E-05 | 81.222 | .451E+04 | 106.763 | 3301.278 | 5.711 | .00229 |
| 141. | 3315.315 | 6.360 | .21E-05 | 0.00 | .89E-06 | 79.966 | .25E-05 | 80.908 | .473E+04 | 106.304 | 3307.010 | 5.629 | .00251 |
| 142. | 3321.712 | 6.229 | .21E-05 | 0.00 | .83E-06 | 79.653 | .26E-05 | 80.616 | .495E+04 | 105.833 | 3312.626 | 5.460 | .00274 |
| 143. | 3327.931 | 5.984 | .21E-05 | 0.00 | .77E-06 | 79.370 | .26E-05 | 80.349 | .517E+04 | 105.365 | 3318.029 | 5.191 | .00298 |
| 144. | 3333.844 | 5.605 | .22E-05 | 0.00 | .69E-06 | 79.119 | .26E-05 | 80.109 | .539E+04 | 104.915 | 3323.109 | 4.808 | .00322 |
| 145. | 3339.301 | 5.074 | .22E-05 | 0.00 | .60E-06 | 78.902 | .26E-05 | 79.899 | .561E+04 | 104.498 | 3327.742 | 4.299 | .00346 |
| 146. | 3344.135 | 4.371 | .22E-05 | 0.00 | .50E-06 | 78.721 | .27E-05 | 79.721 | .580E+04 | 104.128 | 3331.796 | 3.659 | .00369 |
| 147. | 3348.152 | 3.490 | .23E-05 | 0.00 | .39E-06 | 78.579 | .27E-05 | 79.578 | .597E+04 | 103.821 | 3335.135 | 2.889 | .00389 |
| 148. | 3351.204 | 2.440 | .23E-05 | 0.00 | .27E-06 | 78.476 | .27E-05 | 79.474 | .610E+04 | 103.590 | 3337.630 | 2.001 | .00405 |
| 149. | 3353.102 | 1.258 | .23E-05 | 0.00 | .14E-06 | 78.414 | .27E-05 | 79.410 | .619E+04 | 103.447 | 3339.176 | 1.025 | .00415 |

Z-CUT LITHIUM TANTALATE (SMITH AND WELSH)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 3353.747 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .27E-05 | 79.389 | .622E+04 | 103.398 | 3339.699 | 0.000 | .00419 |
| 151. | 3353.102 | -1.258 | .23E-05 | 0.00 | .14E-06 | -101.586 | .27E-05 | 79.410 | .619E+04 | 103.447 | 3339.176 | -1.025 | .00415 |
| 152. | 3351.204 | -2.440 | .23E-05 | 0.00 | .27E-06 | -101.524 | .27E-05 | 79.474 | .610E+04 | 103.590 | 3337.630 | -2.001 | .00405 |
| 153. | 3348.162 | -3.490 | .23E-05 | 0.00 | .39E-06 | -101.421 | .27E-05 | 79.578 | .597E+04 | 103.821 | 3335.135 | -2.889 | .00389 |
| 154. | 3344.135 | -4.371 | .22E-05 | 0.00 | .50E-06 | -101.279 | .27E-05 | 79.721 | .580E+04 | 104.128 | 3331.796 | -3.659 | .00369 |
| 155. | 3339.301 | -5.074 | .22E-05 | 0.00 | .60E-06 | -101.098 | .26E-05 | 79.899 | .561E+04 | 104.498 | 3327.742 | -4.299 | .00346 |
| 156. | 3333.844 | -5.606 | .22E-05 | 0.00 | .69E-06 | -100.881 | .26E-05 | 80.109 | .539E+04 | 104.915 | 3323.109 | -4.808 | .00322 |
| 157. | 3327.931 | -5.984 | .21E-05 | 0.00 | .77E-06 | -100.630 | .26E-05 | 80.349 | .517E+04 | 105.365 | 3318.029 | -5.191 | .00298 |
| 158. | 3321.712 | -6.229 | .21E-05 | 0.00 | .83E-06 | -100.347 | .26E-05 | 80.616 | .495E+04 | 105.833 | 3312.626 | -5.460 | .00274 |
| 159. | 3315.315 | -6.360 | .21E-05 | 0.00 | .89E-06 | -100.034 | .25E-05 | 80.908 | .473E+04 | 106.304 | 3307.010 | -5.629 | .00251 |
| 160. | 3308.845 | -6.397 | .20E-05 | 0.00 | .94E-06 | -99.694 | .25E-05 | 81.222 | .451E+04 | 106.763 | 3301.278 | -5.711 | .00229 |
| 161. | 3302.391 | -6.356 | .20E-05 | 0.00 | .98E-06 | -99.329 | .25E-05 | 81.556 | .430E+04 | 107.195 | 3295.512 | -5.717 | .00208 |
| 162. | 3296.026 | -6.250 | .20E-05 | 0.00 | .10E-05 | -98.941 | .25E-05 | 81.909 | .409E+04 | 107.585 | 3289.783 | -5.659 | .00189 |
| 163. | 3289.809 | -6.090 | .20E-05 | 0.00 | .10E-05 | -98.533 | .25E-05 | 82.279 | .389E+04 | 107.917 | 3284.151 | -5.547 | .00172 |
| 164. | 3283.789 | -5.885 | .19E-05 | 0.00 | .11E-05 | -98.106 | .25E-05 | 82.664 | .370E+04 | 108.175 | 3278.666 | -5.388 | .00156 |
| 165. | 3278.007 | -5.642 | .19E-05 | 0.00 | .11E-05 | -97.663 | .24E-05 | 83.063 | .352E+04 | 108.342 | 3273.370 | -5.190 | .00141 |
| 166. | 3272.494 | -5.368 | .19E-05 | 0.00 | .11E-05 | -97.205 | .24E-05 | 83.474 | .335E+04 | 108.400 | 3268.299 | -4.958 | .00128 |
| 167. | 3267.280 | -5.068 | .19E-05 | 0.00 | .11E-05 | -96.735 | .24E-05 | 83.897 | .319E+04 | 108.331 | 3263.483 | -4.697 | .00116 |
| 168. | 3262.387 | -4.745 | .19E-05 | 0.00 | .12E-05 | -96.253 | .24E-05 | 84.330 | .303E+04 | 108.117 | 3258.948 | -4.411 | .00105 |
| 169. | 3257.833 | -4.404 | .19E-05 | 0.00 | .12E-05 | -95.762 | .24E-05 | 84.772 | .289E+04 | 107.737 | 3254.714 | -4.105 | .00096 |
| 170. | 3253.634 | -4.046 | .19E-05 | 0.00 | .12E-05 | -95.262 | .24E-05 | 85.223 | .275E+04 | 107.173 | 3250.800 | -3.780 | .00087 |
| 171. | 3249.803 | -3.675 | .18E-05 | 0.00 | .12E-05 | -94.754 | .24E-05 | 85.681 | .263E+04 | 106.407 | 3247.220 | -3.441 | .00079 |
| 172. | 3246.351 | -3.292 | .18E-05 | 0.00 | .12E-05 | -94.240 | .24E-05 | 86.145 | .251E+04 | 105.424 | 3243.989 | -3.088 | .00073 |
| 173. | 3243.288 | -2.900 | .18E-05 | 0.00 | .12E-05 | -93.721 | .24E-05 | 86.615 | .241E+04 | 104.211 | 3241.115 | -2.724 | .00067 |
| 174. | 3240.619 | -2.499 | .18E-05 | 0.00 | .12E-05 | -93.197 | .24E-05 | 87.090 | .232E+04 | 102.764 | 3238.609 | -2.351 | .00062 |
| 175. | 3238.352 | -2.092 | .18E-05 | 0.00 | .12E-05 | -92.670 | .24E-05 | 87.569 | .224E+04 | 101.083 | 3236.477 | -1.970 | .00058 |
| 176. | 3236.491 | -1.680 | .18E-05 | 0.00 | .12E-05 | -92.139 | .24E-05 | 88.051 | .217E+04 | 99.182 | 3234.725 | -1.583 | .00055 |
| 177. | 3235.040 | -1.263 | .18E-05 | 0.00 | .12E-05 | -91.606 | .24E-05 | 88.536 | .212E+04 | 97.081 | 3233.358 | -1.191 | .00052 |
| 178. | 3234.002 | -.844 | .18E-05 | 0.00 | .12E-05 | -91.072 | .24E-05 | 89.023 | .208E+04 | 94.819 | 3232.379 | -.796 | .00050 |
| 179. | 3233.378 | -.422 | .18E-05 | 0.00 | .12E-05 | -90.536 | .24E-05 | 89.511 | .206E+04 | 92.440 | 3231.791 | -.399 | .00049 |
| 180. | 3233.170 | 0.000 | .18E-05 | 0.00 | .12E-05 | -90.000 | .24E-05 | 90.000 | .205E+04 | 90.000 | 3231.594 | 0.000 | .00049 |

Y-AXIS BOULE  ZINC OXIDE(JAFFE AND BERLINCOURT,BATEMAN)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0. | 2715.484 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .35E-05 | 90.000 | .175E+05 | -90.000 | 2696.280 | 0.000 | .00707 |
| 1. | 2715.414 | 0.000 | .20E-05 | 0.00 | .32E-07 | -90.000 | .35E-05 | 90.000 | .175E+05 | -90.000 | 2696.232 | 0.000 | .00706 |
| 2. | 2715.205 | 0.000 | .20E-05 | 0.00 | .64E-07 | -90.000 | .35E-05 | 90.000 | .175E+05 | -90.000 | 2696.085 | 0.000 | .00704 |
| 3. | 2714.859 | 0.000 | .20E-05 | 0.00 | .96E-07 | -90.000 | .35E-05 | 90.000 | .174E+05 | -90.000 | 2695.841 | 0.000 | .00701 |
| 4. | 2714.378 | 0.000 | .20E-05 | 0.00 | .13E-06 | -90.000 | .35E-05 | 90.000 | .174E+05 | -90.000 | 2695.502 | 0.000 | .00695 |
| 5. | 2713.766 | 0.000 | .20E-05 | 0.00 | .16E-06 | -90.000 | .35E-05 | 90.000 | .173E+05 | -90.000 | 2695.068 | 0.000 | .00689 |
| 6. | 2713.026 | 0.000 | .20E-05 | 0.00 | .18E-06 | -90.000 | .35E-05 | 90.000 | .172E+05 | -90.000 | 2694.543 | 0.000 | .00681 |
| 7. | 2712.166 | 0.000 | .20E-05 | 0.00 | .21E-06 | -90.000 | .35E-05 | 90.000 | .170E+05 | -90.000 | 2693.928 | 0.000 | .00672 |
| 8. | 2711.190 | 0.000 | .20E-05 | 0.00 | .24E-06 | -90.000 | .35E-05 | 90.000 | .169E+05 | -90.000 | 2693.227 | 0.000 | .00663 |
| 9. | 2710.104 | 0.000 | .20E-05 | 0.00 | .27E-06 | -90.000 | .35E-05 | 90.000 | .167E+05 | -90.000 | 2692.443 | 0.000 | .00652 |
| 10. | 2708.916 | 0.000 | .20E-05 | 0.00 | .29E-06 | -90.000 | .35E-05 | 90.000 | .166E+05 | -90.000 | 2691.579 | 0.000 | .00640 |
| 11. | 2707.633 | 0.000 | .20E-05 | 0.00 | .31E-06 | -90.000 | .35E-05 | 90.000 | .164E+05 | -90.000 | 2690.640 | 0.000 | .00628 |
| 12. | 2706.261 | 0.000 | .21E-05 | 0.00 | .33E-06 | -90.000 | .35E-05 | 90.000 | .162E+05 | -90.000 | 2689.629 | 0.000 | .00615 |
| 13. | 2704.808 | 0.000 | .21E-05 | 0.00 | .35E-06 | -90.000 | .35E-05 | 90.000 | .160E+05 | -90.000 | 2688.552 | 0.000 | .00601 |
| 14. | 2703.282 | 0.000 | .21E-05 | 0.00 | .37E-06 | -90.000 | .35E-05 | 90.000 | .158E+05 | -90.000 | 2687.411 | 0.000 | .00587 |
| 15. | 2701.689 | 0.000 | .21E-05 | 0.00 | .39E-06 | -90.000 | .35E-05 | 90.000 | .156E+05 | -90.000 | 2686.213 | 0.000 | .00573 |
| 16. | 2700.037 | 0.000 | .21E-05 | 0.00 | .40E-06 | -90.000 | .35E-05 | 90.000 | .154E+05 | -90.000 | 2684.961 | 0.000 | .00558 |
| 17. | 2698.332 | 0.000 | .21E-05 | 0.00 | .42E-06 | -90.000 | .35E-05 | 90.000 | .152E+05 | -90.000 | 2683.660 | 0.000 | .00544 |
| 18. | 2696.582 | 0.000 | .21E-05 | 0.00 | .43E-06 | -90.000 | .35E-05 | 90.000 | .149E+05 | -90.000 | 2682.315 | 0.000 | .00529 |
| 19. | 2694.793 | 0.000 | .21E-05 | 0.00 | .44E-06 | -90.000 | .35E-05 | 90.000 | .147E+05 | -90.000 | 2680.931 | 0.000 | .00514 |
| 20. | 2692.970 | 0.000 | .21E-05 | 0.00 | .45E-06 | -90.000 | .35E-05 | 90.000 | .145E+05 | -90.000 | 2679.512 | 0.000 | .00500 |
| 21. | 2691.121 | 0.000 | .21E-05 | 0.00 | .46E-06 | -90.000 | .35E-05 | 90.000 | .143E+05 | -90.000 | 2678.063 | 0.000 | .00485 |
| 22. | 2689.251 | 0.000 | .21E-05 | 0.00 | .47E-06 | -90.000 | .35E-05 | 90.000 | .140E+05 | -90.000 | 2676.588 | 0.000 | .00471 |
| 23. | 2687.364 | 0.000 | .21E-05 | 0.00 | .47E-06 | -90.000 | .35E-05 | 90.000 | .138E+05 | -90.000 | 2675.093 | 0.000 | .00457 |
| 24. | 2685.468 | 0.000 | .21E-05 | 0.00 | .48E-06 | -90.000 | .35E-05 | 90.000 | .136E+05 | -90.000 | 2673.580 | 0.000 | .00443 |
| 25. | 2683.565 | 0.000 | .21E-05 | 0.00 | .48E-06 | -90.000 | .35E-05 | 90.000 | .134E+05 | -90.000 | 2672.055 | 0.000 | .00429 |
| 26. | 2681.661 | 0.000 | .21E-05 | 0.00 | .49E-06 | -90.000 | .35E-05 | 90.000 | .132E+05 | -90.000 | 2670.521 | 0.000 | .00415 |
| 27. | 2679.760 | 0.000 | .21E-05 | 0.00 | .49E-06 | -90.000 | .35E-05 | 90.000 | .130E+05 | -90.000 | 2668.983 | 0.000 | .00402 |
| 28. | 2677.867 | 0.000 | .21E-05 | 0.00 | .49E-06 | -90.000 | .35E-05 | 90.000 | .128E+05 | -90.000 | 2667.444 | 0.000 | .00389 |
| 29. | 2675.984 | 0.000 | .21E-05 | 0.00 | .50E-06 | -90.000 | .35E-05 | 90.000 | .125E+05 | -90.000 | 2665.908 | 0.000 | .00377 |
| 30. | 2674.116 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .35E-05 | 90.000 | .123E+05 | -90.000 | 2664.378 | 0.000 | .00364 |
| 31. | 2672.266 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .35E-05 | 90.000 | .121E+05 | -90.000 | 2662.858 | 0.000 | .00352 |
| 32. | 2670.437 | 0.000 | .22E-05 | 0.00 | .50E-06 | -90.000 | .35E-05 | 90.000 | .119E+05 | -90.000 | 2661.351 | 0.000 | .00340 |
| 33. | 2668.632 | 0.000 | .22E-05 | 0.00 | .49E-06 | -90.000 | .36E-05 | 90.000 | .117E+05 | -90.000 | 2659.859 | 0.000 | .00329 |
| 34. | 2666.853 | 0.000 | .22E-05 | 0.00 | .49E-06 | -90.000 | .36E-05 | 90.000 | .115E+05 | -90.000 | 2658.386 | 0.000 | .00317 |
| 35. | 2665.103 | 0.000 | .22E-05 | 0.00 | .49E-06 | -90.000 | .36E-05 | 90.000 | .113E+05 | -90.000 | 2656.935 | 0.000 | .00306 |
| 36. | 2663.383 | 0.000 | .22E-05 | 0.00 | .49E-06 | -90.000 | .36E-05 | 90.000 | .111E+05 | -90.000 | 2655.507 | 0.000 | .00296 |
| 37. | 2661.697 | 0.000 | .22E-05 | 0.00 | .48E-06 | -90.000 | .36E-05 | 90.000 | .109E+05 | -90.000 | 2654.104 | 0.000 | .00285 |
| 38. | 2660.046 | 0.000 | .22E-05 | 0.00 | .48E-06 | -90.000 | .36E-05 | 90.000 | .108E+05 | -90.000 | 2652.730 | 0.000 | .00275 |
| 39. | 2658.431 | 0.000 | .22E-05 | 0.00 | .47E-06 | -90.000 | .36E-05 | 90.000 | .106E+05 | -90.000 | 2651.385 | 0.000 | .00265 |
| 40. | 2656.854 | 0.000 | .22E-05 | 0.00 | .47E-06 | -90.000 | .36E-05 | 90.000 | .104E+05 | -90.000 | 2650.071 | 0.000 | .00255 |
| 41. | 2655.315 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .36E-05 | 90.000 | .102E+05 | -90.000 | 2648.790 | 0.000 | .00246 |
| 42. | 2653.817 | 0.000 | .22E-05 | 0.00 | .46E-06 | -90.000 | .36E-05 | 90.000 | .100E+05 | -90.000 | 2647.542 | 0.000 | .00236 |
| 43. | 2652.360 | 0.000 | .22E-05 | 0.00 | .45E-06 | -90.000 | .36E-05 | 90.000 | .981E+04 | -90.000 | 2646.330 | 0.000 | .00227 |
| 44. | 2650.944 | 0.000 | .22E-05 | 0.00 | .44E-06 | -90.000 | .36E-05 | 90.000 | .962E+04 | -90.000 | 2645.153 | 0.000 | .00218 |
| 45. | 2649.569 | 0.000 | .22E-05 | 0.00 | .44E-06 | -90.000 | .36E-05 | 90.000 | .943E+04 | -90.000 | 2644.013 | 0.000 | .00210 |
| 46. | 2648.238 | 0.000 | .22E-05 | 0.00 | .43E-06 | -90.000 | .36E-05 | 90.000 | .924E+04 | -90.000 | 2642.910 | 0.000 | .00201 |
| 47. | 2646.949 | 0.000 | .22E-05 | 0.00 | .42E-06 | -90.000 | .36E-05 | 90.000 | .905E+04 | -90.000 | 2641.844 | 0.000 | .00193 |
| 48. | 2645.702 | 0.000 | .22E-05 | 0.00 | .42E-06 | -90.000 | .36E-05 | 90.000 | .886E+04 | -90.000 | 2640.815 | 0.000 | .00185 |
| 49. | 2644.498 | 0.000 | .22E-05 | 0.00 | .41E-06 | -90.000 | .36E-05 | 90.000 | .867E+04 | -90.000 | 2639.824 | 0.000 | .00177 |

Y-AXIS BOULE ZINC OXIDE(JAFFE AND BERLINCOURT,BATEMAN)

| | VWH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | OV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50. | 2643.336 | 0.000 | .22E-05 | 0.00 | .40E-06 | -90.000 | .36E-05 | 90.000 | .847E+04 | -90.000 | 2638.871 | 0.000 | .00169 |
| 51. | 2642.216 | 0.000 | .22E-05 | 0.00 | .39E-06 | -90.000 | .36E-05 | 90.000 | .828E+04 | -90.000 | 2637.954 | 0.000 | .00161 |
| 52. | 2641.138 | 0.000 | .22E-05 | 0.00 | .38E-06 | -90.000 | .36E-05 | 90.000 | .809E+04 | -90.000 | 2637.074 | 0.000 | .00154 |
| 53. | 2640.101 | 0.000 | .23E-05 | 0.00 | .37E-06 | -90.000 | .36E-05 | 90.000 | .789E+04 | -90.000 | 2636.230 | 0.000 | .00147 |
| 54. | 2639.104 | 0.000 | .23E-05 | 0.00 | .36E-06 | -90.000 | .36E-05 | 90.000 | .770E+04 | -90.000 | 2635.422 | 0.000 | .00140 |
| 55. | 2638.146 | 0.000 | .23E-05 | 0.00 | .35E-06 | -90.000 | .36E-05 | 90.000 | .750E+04 | -90.000 | 2634.649 | 0.000 | .00133 |
| 56. | 2637.228 | 0.000 | .23E-05 | 0.00 | .34E-06 | -90.000 | .36E-05 | 90.000 | .730E+04 | -90.000 | 2633.910 | 0.000 | .00126 |
| 57. | 2636.347 | 0.000 | .23E-05 | 0.00 | .33E-06 | -90.000 | .36E-05 | 90.000 | .710E+04 | -90.000 | 2633.205 | 0.000 | .00119 |
| 58. | 2635.504 | 0.000 | .23E-05 | 0.00 | .32E-06 | -90.000 | .36E-05 | 90.000 | .690E+04 | -90.000 | 2632.532 | 0.000 | .00113 |
| 59. | 2634.697 | 0.000 | .23E-05 | 0.00 | .31E-06 | -90.000 | .36E-05 | 90.000 | .670E+04 | -90.000 | 2631.890 | 0.000 | .00107 |
| 60. | 2633.925 | 0.000 | .23E-05 | 0.00 | .30E-06 | -90.000 | .36E-05 | 90.000 | .650E+04 | -90.000 | 2631.280 | 0.000 | .00100 |
| 61. | 2633.187 | 0.000 | .23E-05 | 0.00 | .29E-06 | -90.000 | .36E-05 | 90.000 | .630E+04 | -90.000 | 2630.699 | 0.000 | .00094 |
| 62. | 2632.483 | 0.000 | .23E-05 | 0.00 | .28E-06 | -90.000 | .36E-05 | 90.000 | .609E+04 | -90.000 | 2630.147 | 0.000 | .00089 |
| 63. | 2631.811 | 0.000 | .23E-05 | 0.00 | .27E-06 | -90.000 | .36E-05 | 90.000 | .589E+04 | -90.000 | 2629.623 | 0.000 | .00083 |
| 64. | 2631.170 | 0.000 | .23E-05 | 0.00 | .26E-06 | -90.000 | .36E-05 | 90.000 | .568E+04 | -90.000 | 2629.125 | 0.000 | .00078 |
| 65. | 2630.560 | 0.000 | .23E-05 | 0.00 | .25E-06 | -90.000 | .36E-05 | 90.000 | .547E+04 | -90.000 | 2628.655 | 0.000 | .00072 |
| 66. | 2629.980 | 0.000 | .23E-05 | 0.00 | .24E-06 | -90.000 | .36E-05 | 90.000 | .527E+04 | -90.000 | 2628.209 | 0.000 | .00067 |
| 67. | 2629.428 | 0.000 | .23E-05 | 0.00 | .23E-06 | -90.000 | .36E-05 | 90.000 | .506E+04 | -90.000 | 2627.788 | 0.000 | .00062 |
| 68. | 2628.905 | 0.000 | .23E-05 | 0.00 | .22E-06 | -90.000 | .36E-05 | 90.000 | .485E+04 | -90.000 | 2627.391 | 0.000 | .00058 |
| 69. | 2628.408 | 0.000 | .23E-05 | 0.00 | .21E-06 | -90.000 | .36E-05 | 90.000 | .464E+04 | -90.000 | 2627.017 | 0.000 | .00053 |
| 70. | 2627.939 | 0.000 | .23E-05 | 0.00 | .20E-06 | -90.000 | .36E-05 | 90.000 | .443E+04 | -90.000 | 2626.665 | 0.000 | .00048 |
| 71. | 2627.495 | 0.000 | .23E-05 | 0.00 | .19E-06 | -90.000 | .36E-05 | 90.000 | .422E+04 | -90.000 | 2626.335 | 0.000 | .00044 |
| 72. | 2627.076 | 0.000 | .23E-05 | 0.00 | .18E-06 | -90.000 | .36E-05 | 90.000 | .400E+04 | -90.000 | 2626.025 | 0.000 | .00040 |
| 73. | 2626.683 | 0.000 | .23E-05 | 0.00 | .17E-06 | -90.000 | .36E-05 | 90.000 | .379E+04 | -90.000 | 2625.736 | 0.000 | .00036 |
| 74. | 2626.314 | 0.000 | .23E-05 | 0.00 | .16E-06 | -90.000 | .36E-05 | 90.000 | .357E+04 | -90.000 | 2625.468 | 0.000 | .00032 |
| 75. | 2625.969 | 0.000 | .23E-05 | 0.00 | .15E-06 | -90.000 | .36E-05 | 90.000 | .336E+04 | -90.000 | 2625.218 | 0.000 | .00029 |
| 76. | 2625.647 | 0.000 | .23E-05 | 0.00 | .14E-06 | -90.000 | .36E-05 | 90.000 | .314E+04 | -90.000 | 2624.987 | 0.000 | .00025 |
| 77. | 2625.349 | 0.000 | .23E-05 | 0.00 | .13E-06 | -90.000 | .36E-05 | 90.000 | .292E+04 | -90.000 | 2624.775 | 0.000 | .00022 |
| 78. | 2625.073 | 0.000 | .23E-05 | 0.00 | .12E-06 | -90.000 | .36E-05 | 90.000 | .270E+04 | -90.000 | 2624.580 | 0.000 | .00019 |
| 79. | 2624.821 | 0.000 | .23E-05 | 0.00 | .11E-06 | -90.000 | .36E-05 | 90.000 | .248E+04 | -90.000 | 2624.403 | 0.000 | .00016 |
| 80. | 2624.590 | 0.000 | .23E-05 | 0.00 | .98E-07 | -90.000 | .36E-05 | 90.000 | .226E+04 | -90.000 | 2624.242 | 0.000 | .00013 |
| 81. | 2624.383 | 0.000 | .23E-05 | 0.00 | .88E-07 | -90.000 | .36E-05 | 90.000 | .204E+04 | -90.000 | 2624.099 | 0.000 | .00011 |
| 82. | 2624.197 | 0.000 | .23E-05 | 0.00 | .78E-07 | -90.000 | .36E-05 | 90.000 | .181E+04 | -90.000 | 2623.971 | 0.000 | .00009 |
| 83. | 2624.034 | 0.000 | .23E-05 | 0.00 | .68E-07 | -90.000 | .36E-05 | 90.000 | .159E+04 | -90.000 | 2623.860 | 0.000 | .00007 |
| 84. | 2623.892 | 0.000 | .23E-05 | 0.00 | .59E-07 | -90.000 | .36E-05 | 90.000 | .136E+04 | -90.000 | 2623.764 | 0.000 | .00005 |
| 85. | 2623.772 | 180.000 | .23E-05 | 0.00 | .49E-07 | -90.000 | .36E-05 | 90.000 | .114E+04 | -90.000 | 2623.683 | 0.000 | .00003 |
| 86. | 2623.675 | 180.000 | .23E-05 | 0.00 | .39E-07 | -90.000 | .36E-05 | 90.000 | .912E+03 | -90.000 | 2623.617 | 0.000 | .00002 |
| 87. | 2623.599 | 180.000 | .23E-05 | 0.00 | .29E-07 | -90.000 | .36E-05 | 90.000 | .684E+03 | -90.000 | 2623.566 | 0.000 | .00001 |
| 88. | 2623.544 | 180.000 | .23E-05 | 0.00 | .19E-07 | -90.000 | .36E-05 | 90.000 | .456E+03 | -90.000 | 2623.530 | 0.000 | .00001 |
| 89. | 2623.512 | 180.000 | .23E-05 | 0.00 | .97E-08 | -90.000 | .36E-05 | 90.000 | .228E+03 | -90.000 | 2623.508 | 0.000 | 0.00000 |
| 90. | 2623.501 | 0.000 | .23E-05 | 0.00 | 0. | 0.000 | .36E-05 | 90.000 | 0. | 0.000 | 2623.501 | 0.000 | 0.00000 |
| 91. | 2623.512 | 180.000 | .23E-05 | 0.00 | .97E-08 | 90.000 | .36E-05 | 90.000 | .228E+03 | 90.000 | 2623.508 | 0.000 | 0.00000 |
| 92. | 2623.544 | 180.000 | .23E-05 | 0.00 | .19E-07 | 90.000 | .36E-05 | 90.000 | .456E+03 | 90.000 | 2623.530 | 0.000 | .00001 |
| 93. | 2623.599 | 180.000 | .23E-05 | 0.00 | .29E-07 | 90.000 | .36E-05 | 90.000 | .684E+03 | 90.000 | 2623.566 | 0.000 | .00001 |
| 94. | 2623.675 | 180.000 | .23E-05 | 0.00 | .39E-07 | 90.000 | .36E-05 | 90.000 | .912E+03 | 90.000 | 2623.617 | 0.000 | .00002 |
| 95. | 2623.772 | 180.000 | .23E-05 | 0.00 | .49E-07 | 90.000 | .36E-05 | 90.000 | .114E+04 | 90.000 | 2623.683 | 0.000 | .00003 |
| 96. | 2623.892 | 0.000 | .23E-05 | 0.00 | .59E-07 | 90.000 | .36E-05 | 90.000 | .136E+04 | 90.000 | 2623.764 | 0.000 | .00005 |
| 97. | 2624.034 | 0.000 | .23E-05 | 0.00 | .68E-07 | 90.000 | .36E-05 | 90.000 | .159E+04 | 90.000 | 2623.860 | 0.000 | .00007 |
| 98. | 2624.197 | 0.000 | .23E-05 | 0.00 | .78E-07 | 90.000 | .36E-05 | 90.000 | .181E+04 | 90.000 | 2623.971 | 0.000 | .00009 |
| 99. | 2624.383 | 0.000 | .23E-05 | 0.00 | .88E-07 | 90.000 | .36E-05 | 90.000 | .204E+04 | 90.000 | 2624.099 | 0.000 | .00011 |

Y-AXIS BOULE ZINC OXIDE(JAFFE AND BERLINCOURT,BATEMAN)

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100. | 2624.590 | 0.000 | .23E-05 | 0.00 | .98E-07 | 90.000 | .36E-05 | 90.000 | .226E+04 | 90.000 | 2624.242 | 0.000 | .00013 |
| 101. | 2624.821 | 0.000 | .23E-05 | 0.00 | .11E-06 | 90.000 | .36E-05 | 90.000 | .248E+04 | 90.000 | 2624.403 | 0.000 | .00016 |
| 102. | 2625.073 | 0.000 | .23E-05 | 0.00 | .12E-06 | 90.000 | .36E-05 | 90.000 | .270E+04 | 90.000 | 2624.580 | 0.000 | .00019 |
| 103. | 2625.349 | 0.000 | .23E-05 | 0.00 | .13E-06 | 90.000 | .36E-05 | 90.000 | .292E+04 | 90.000 | 2624.775 | 0.000 | .00022 |
| 104. | 2625.647 | 0.000 | .23E-05 | 0.00 | .14E-06 | 90.000 | .36E-05 | 90.000 | .314E+04 | 90.000 | 2624.987 | 0.000 | .00025 |
| 105. | 2625.969 | 0.000 | .23E-05 | 0.00 | .15E-06 | 90.000 | .36E-05 | 90.000 | .336E+04 | 90.000 | 2625.218 | 0.000 | .00029 |
| 106. | 2626.314 | 0.000 | .23E-05 | 0.00 | .16E-06 | 90.000 | .36E-05 | 90.000 | .357E+04 | 90.000 | 2625.468 | 0.000 | .00032 |
| 107. | 2626.683 | 0.000 | .23E-05 | 0.00 | .17E-06 | 90.000 | .36E-05 | 90.000 | .379E+04 | 90.000 | 2625.736 | 0.000 | .00036 |
| 108. | 2627.076 | 0.000 | .23E-05 | 0.00 | .18E-06 | 90.000 | .36E-05 | 90.000 | .400E+04 | 90.000 | 2626.025 | 0.000 | .00040 |
| 109. | 2627.495 | 0.000 | .23E-05 | 0.00 | .19E-06 | 90.000 | .36E-05 | 90.000 | .422E+04 | 90.000 | 2626.335 | 0.000 | .00044 |
| 110. | 2627.939 | 0.000 | .23E-05 | 0.00 | .20E-06 | 90.000 | .36E-05 | 90.000 | .443E+04 | 90.000 | 2626.665 | 0.000 | .00048 |
| 111. | 2628.408 | 0.000 | .23E-05 | 0.00 | .21E-06 | 90.000 | .36E-05 | 90.000 | .464E+04 | 90.000 | 2627.017 | 0.000 | .00053 |
| 112. | 2628.905 | 0.000 | .23E-05 | 0.00 | .22E-06 | 90.000 | .36E-05 | 90.000 | .485E+04 | 90.000 | 2627.391 | 0.000 | .00058 |
| 113. | 2629.428 | 0.000 | .23E-05 | 0.00 | .23E-06 | 90.000 | .36E-05 | 90.000 | .506E+04 | 90.000 | 2627.788 | 0.000 | .00062 |
| 114. | 2629.980 | 0.000 | .23E-05 | 0.00 | .24E-06 | 90.000 | .36E-05 | 90.000 | .527E+04 | 90.000 | 2628.209 | 0.000 | .00067 |
| 115. | 2630.560 | 0.000 | .23E-05 | 0.00 | .25E-06 | 90.000 | .36E-05 | 90.000 | .547E+04 | 90.000 | 2628.655 | 0.000 | .00072 |
| 116. | 2631.170 | 0.000 | .23E-05 | 0.00 | .26E-06 | 90.000 | .36E-05 | 90.000 | .568E+04 | 90.000 | 2629.125 | 0.000 | .00078 |
| 117. | 2631.811 | 0.000 | .23E-05 | 0.00 | .27E-06 | 90.000 | .36E-05 | 90.000 | .589E+04 | 90.000 | 2629.623 | 0.000 | .00083 |
| 118. | 2632.483 | 0.000 | .23E-05 | 0.00 | .28E-06 | 90.000 | .36E-05 | 90.000 | .609E+04 | 90.000 | 2630.147 | 0.000 | .00089 |
| 119. | 2633.187 | 0.000 | .23E-05 | 0.00 | .29E-06 | 90.000 | .36E-05 | 90.000 | .630E+04 | 90.000 | 2630.699 | 0.000 | .00094 |
| 120. | 2633.925 | 0.000 | .23E-05 | 0.00 | .30E-06 | 90.000 | .36E-05 | 90.000 | .650E+04 | 90.000 | 2631.280 | 0.000 | .00100 |
| 121. | 2634.697 | 0.000 | .23E-05 | 0.00 | .31E-06 | 90.000 | .36E-05 | 90.000 | .670E+04 | 90.000 | 2631.890 | 0.000 | .00107 |
| 122. | 2635.504 | 0.000 | .23E-05 | 0.00 | .32E-06 | 90.000 | .36E-05 | 90.000 | .690E+04 | 90.000 | 2632.532 | 0.000 | .00113 |
| 123. | 2636.347 | 0.000 | .23E-05 | 0.00 | .33E-06 | 90.000 | .36E-05 | 90.000 | .710E+04 | 90.000 | 2633.205 | 0.000 | .00119 |
| 124. | 2637.228 | 0.000 | .23E-05 | 0.00 | .34E-06 | 90.000 | .36E-05 | 90.000 | .730E+04 | 90.000 | 2633.910 | 0.000 | .00126 |
| 125. | 2638.146 | 0.000 | .23E-05 | 0.00 | .35E-06 | 90.000 | .36E-05 | 90.000 | .750E+04 | 90.000 | 2634.649 | 0.000 | .00133 |
| 126. | 2639.104 | 0.000 | .23E-05 | 0.00 | .36E-06 | 90.000 | .36E-05 | 90.000 | .770E+04 | 90.000 | 2635.422 | 0.000 | .00140 |
| 127. | 2640.101 | 0.000 | .23E-05 | 0.00 | .37E-06 | 90.000 | .36E-05 | 90.000 | .789E+04 | 90.000 | 2636.230 | 0.000 | .00147 |
| 128. | 2641.138 | 0.000 | .22E-05 | 0.00 | .38E-06 | 90.000 | .36E-05 | 90.000 | .809E+04 | 90.000 | 2637.074 | 0.000 | .00154 |
| 129. | 2642.216 | 0.000 | .22E-05 | 0.00 | .39E-06 | 90.000 | .36E-05 | 90.000 | .828E+04 | 90.000 | 2637.954 | 0.000 | .00161 |
| 130. | 2643.336 | 0.000 | .22E-05 | 0.00 | .40E-06 | 90.000 | .36E-05 | 90.000 | .847E+04 | 90.000 | 2638.871 | 0.000 | .00169 |
| 131. | 2644.498 | 0.000 | .22E-05 | 0.00 | .41E-06 | 90.000 | .36E-05 | 90.000 | .867E+04 | 90.000 | 2639.824 | 0.000 | .00177 |
| 132. | 2645.702 | 0.000 | .22E-05 | 0.00 | .42E-06 | 90.000 | .36E-05 | 90.000 | .886E+04 | 90.000 | 2640.815 | 0.000 | .00185 |
| 133. | 2646.949 | 0.000 | .22E-05 | 0.00 | .42E-06 | 90.000 | .36E-05 | 90.000 | .905E+04 | 90.000 | 2641.844 | 0.000 | .00193 |
| 134. | 2648.238 | 0.000 | .22E-05 | 0.00 | .43E-06 | 90.000 | .36E-05 | 90.000 | .924E+04 | 90.000 | 2642.910 | 0.000 | .00201 |
| 135. | 2649.569 | 0.000 | .22E-05 | 0.00 | .44E-06 | 90.000 | .36E-05 | 90.000 | .943E+04 | 90.000 | 2644.013 | 0.000 | .00210 |
| 136. | 2650.944 | 0.000 | .22E-05 | 0.00 | .44E-06 | 90.000 | .36E-05 | 90.000 | .962E+04 | 90.000 | 2645.153 | 0.000 | .00218 |
| 137. | 2652.360 | 0.000 | .22E-05 | 0.00 | .45E-06 | 90.000 | .36E-05 | 90.000 | .981E+04 | 90.000 | 2646.330 | 0.000 | .00227 |
| 138. | 2653.817 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .36E-05 | 90.000 | .100E+05 | 90.000 | 2647.542 | 0.000 | .00236 |
| 139. | 2655.315 | 0.000 | .22E-05 | 0.00 | .46E-06 | 90.000 | .36E-05 | 90.000 | .102E+05 | 90.000 | 2648.790 | 0.000 | .00246 |
| 140. | 2656.854 | 0.000 | .22E-05 | 0.00 | .47E-06 | 90.000 | .36E-05 | 90.000 | .104E+05 | 90.000 | 2650.071 | 0.000 | .00255 |
| 141. | 2658.431 | 0.000 | .22E-05 | 0.00 | .47E-06 | 90.000 | .36E-05 | 90.000 | .106E+05 | 90.000 | 2651.385 | 0.000 | .00265 |
| 142. | 2660.046 | 0.000 | .22E-05 | 0.00 | .48E-06 | 90.000 | .36E-05 | 90.000 | .108E+05 | 90.000 | 2652.730 | 0.000 | .00275 |
| 143. | 2661.697 | 0.000 | .22E-05 | 0.00 | .48E-06 | 90.000 | .36E-05 | 90.000 | .109E+05 | 90.000 | 2654.104 | 0.000 | .00285 |
| 144. | 2663.383 | 0.000 | .22E-05 | 0.00 | .49E-06 | 90.000 | .36E-05 | 90.000 | .111E+05 | 90.000 | 2655.507 | 0.000 | .00296 |
| 145. | 2665.103 | 0.000 | .22E-05 | 0.00 | .49E-06 | 90.000 | .36E-05 | 90.000 | .113E+05 | 90.000 | 2656.935 | 0.000 | .00306 |
| 146. | 2666.853 | 0.000 | .22E-05 | 0.00 | .49E-06 | 90.000 | .36E-05 | 90.000 | .115E+05 | 90.000 | 2658.386 | 0.000 | .00317 |
| 147. | 2668.632 | 0.000 | .22E-05 | 0.00 | .49E-06 | 90.000 | .36E-05 | 90.000 | .117E+05 | 90.000 | 2659.859 | 0.000 | .00329 |
| 148. | 2670.437 | 0.000 | .22E-05 | 0.00 | .50E-06 | 90.000 | .35E-05 | 90.000 | .119E+05 | 90.000 | 2661.351 | 0.000 | .00340 |
| 149. | 2672.266 | 0.000 | .22E-05 | 0.00 | .50E-06 | 90.000 | .35E-05 | 90.000 | .121E+05 | 90.000 | 2662.858 | 0.000 | .00352 |

Y-AXIS BOULE ZINC OXIDE(JAFFE AND BERLINCOURT,BATEMAN)

| | V WH=INF | PHI INF | MAG U1 | PHAS U1 | MAG U2 | PHAS U2 | MAG U3 | PHAS U3 | MAG POT | PHS POT | V WH=0 | PHI ZRO | DV/VINF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 150. | 2674.116 | 0.000 | .22E-05 | 0.00 | .50E-06 | 90.000 | .35E-05 | 90.000 | .123E+05 | 90.000 | 2664.378 | 0.000 | .00364 |
| 151. | 2675.984 | 0.000 | .21E-05 | 0.00 | .50E-06 | 90.000 | .35E-05 | 90.000 | .125E+05 | 90.000 | 2665.908 | 0.000 | .00377 |
| 152. | 2677.867 | 0.000 | .21E-05 | 0.00 | .49E-06 | 90.000 | .35E-05 | 90.000 | .128E+05 | 90.000 | 2667.444 | 0.000 | .00389 |
| 153. | 2679.760 | 0.000 | .21E-05 | 0.00 | .49E-06 | 90.000 | .35E-05 | 90.000 | .130E+05 | 90.000 | 2668.983 | 0.000 | .00402 |
| 154. | 2681.661 | 0.000 | .21E-05 | 0.00 | .49E-06 | 90.000 | .35E-05 | 90.000 | .132E+05 | 90.000 | 2670.521 | 0.000 | .00415 |
| 155. | 2683.565 | 0.000 | .21E-05 | 0.00 | .48E-06 | 90.000 | .35E-05 | 90.000 | .134E+05 | 90.000 | 2672.055 | 0.000 | .00429 |
| 156. | 2685.468 | 0.000 | .21E-05 | 0.00 | .48E-06 | 90.000 | .35E-05 | 90.000 | .136E+05 | 90.000 | 2673.580 | 0.000 | .00443 |
| 157. | 2687.364 | 0.000 | .21E-05 | 0.00 | .47E-06 | 90.000 | .35E-05 | 90.000 | .138E+05 | 90.000 | 2675.093 | 0.000 | .00457 |
| 158. | 2689.251 | 0.000 | .21E-05 | 0.00 | .47E-06 | 90.000 | .35E-05 | 90.000 | .140E+05 | 90.000 | 2676.588 | 0.000 | .00471 |
| 159. | 2691.121 | 0.000 | .21E-05 | 0.00 | .46E-06 | 90.000 | .35E-05 | 90.000 | .143E+05 | 90.000 | 2678.063 | 0.000 | .00485 |
| 160. | 2692.970 | 0.000 | .21E-05 | 0.00 | .45E-06 | 90.000 | .35E-05 | 90.000 | .145E+05 | 90.000 | 2679.512 | 0.000 | .00500 |
| 161. | 2694.793 | 0.000 | .21E-05 | 0.00 | .44E-06 | 90.000 | .35E-05 | 90.000 | .147E+05 | 90.000 | 2680.931 | 0.000 | .00514 |
| 162. | 2696.582 | 0.000 | .21E-05 | 0.00 | .43E-06 | 90.000 | .35E-05 | 90.000 | .149E+05 | 90.000 | 2682.315 | 0.000 | .00529 |
| 163. | 2698.332 | 0.000 | .21E-05 | 0.00 | .42E-06 | 90.000 | .35E-05 | 90.000 | .152E+05 | 90.000 | 2683.660 | 0.000 | .00544 |
| 164. | 2700.037 | 0.000 | .21E-05 | 0.00 | .40E-06 | 90.000 | .35E-05 | 90.000 | .154E+05 | 90.000 | 2684.961 | 0.000 | .00558 |
| 165. | 2701.689 | 0.000 | .21E-05 | 0.00 | .39E-06 | 90.000 | .35E-05 | 90.000 | .156E+05 | 90.000 | 2686.213 | 0.000 | .00573 |
| 166. | 2703.282 | 0.000 | .21E-05 | 0.00 | .37E-06 | 90.000 | .35E-05 | 90.000 | .158E+05 | 90.000 | 2687.411 | 0.000 | .00587 |
| 167. | 2704.808 | 0.000 | .21E-05 | 0.00 | .35E-06 | 90.000 | .35E-05 | 90.000 | .160E+05 | 90.000 | 2688.552 | 0.000 | .00601 |
| 168. | 2706.261 | 0.000 | .21E-05 | 0.00 | .33E-06 | 90.000 | .35E-05 | 90.000 | .162E+05 | 90.000 | 2689.629 | 0.000 | .00615 |
| 169. | 2707.633 | 0.000 | .20E-05 | 0.00 | .31E-06 | 90.000 | .35E-05 | 90.000 | .164E+05 | 90.000 | 2690.640 | 0.000 | .00628 |
| 170. | 2708.915 | 0.000 | .20E-05 | 0.00 | .29E-06 | 90.000 | .35E-05 | 90.000 | .166E+05 | 90.000 | 2691.579 | 0.000 | .00640 |
| 171. | 2710.104 | 0.000 | .20E-05 | 0.00 | .27E-06 | 90.000 | .35E-05 | 90.000 | .167E+05 | 90.000 | 2692.443 | 0.000 | .00652 |
| 172. | 2711.190 | 0.000 | .20E-05 | 0.00 | .24E-06 | 90.000 | .35E-05 | 90.000 | .169E+05 | 90.000 | 2693.227 | 0.000 | .00663 |
| 173. | 2712.166 | 0.000 | .20E-05 | 0.00 | .21E-06 | 90.000 | .35E-05 | 90.000 | .170E+05 | 90.000 | 2693.928 | 0.000 | .00672 |
| 174. | 2713.026 | 0.000 | .20E-05 | 0.00 | .18E-06 | 90.000 | .35E-05 | 90.000 | .172E+05 | 90.000 | 2694.543 | 0.000 | .00681 |
| 175. | 2713.766 | 0.000 | .20E-05 | 0.00 | .15E-06 | 90.000 | .35E-05 | 90.000 | .173E+05 | 90.000 | 2695.068 | 0.000 | .00689 |
| 176. | 2714.378 | 0.000 | .20E-05 | 0.00 | .13E-06 | 90.000 | .35E-05 | 90.000 | .174E+05 | 90.000 | 2695.502 | 0.000 | .00695 |
| 177. | 2714.859 | 0.000 | .20E-05 | 0.00 | .96E-07 | 90.000 | .35E-05 | 90.000 | .174E+05 | 90.000 | 2695.841 | 0.000 | .00701 |
| 178. | 2715.205 | 0.000 | .20E-05 | 0.00 | .64E-07 | 90.000 | .35E-05 | 90.000 | .175E+05 | 90.000 | 2696.085 | 0.000 | .00704 |
| 179. | 2715.414 | 0.000 | .20E-05 | 0.00 | .32E-07 | 90.000 | .35E-05 | 90.000 | .175E+05 | 90.000 | 2696.232 | 0.000 | .00706 |
| 180. | 2703.700 | 0.000 | .20E-05 | 0.00 | 0. | 0.000 | .35E-05 | 90.000 | .680E+04 | 90.000 | 2684.547 | 0.000 | .00708 |

Printed by
United States Air Force
Hanscom AFB, Mass. 01731